ICOM

For the love of ham radio.

AES LLC

Amateur Electronic Supply

HAM RADIO CATALOG

SPRING/SUMMER 2008

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D-STAR: CONNECT ACROSS MILES INSTEAD OF METERS!

What is D-STAR?

D-STAR: an open protocol
D-STAR is an acronym for Digtal Smart Technology for Amateur (Ham) Radio. The D-STAR technology is an open protocol designed in Japan. The English version of the protocol is published on the ARRL website (www.ARRL.org). D-STAR is quickly growing in popularity with U.S. ham operators.

Emergency Relief Comms
While D-STAR's sole application is Amateur Radio, recent events have made Amateur Radio a primary focus for disaster relief communications by the International Telecommunications Union, or ITU. In its latest update, February 2, 2006, the ITU created recommendation ITU-D13, encouraging international government administrations "to take the necessary steps to allow amateur stations to prepare for and meet communication needs in support of disaster relief."

128k D-STAR is available on select Icom equipment. Backbone D-STAR repeaters are already in place in numerous states throughout the U.S. More and more are coming online!

D-STAR ready

IC-92AD & HM-175GPS

MILITARY RUGGED AND SUBMERSIBLE

- 5/2.5/.5/.1 Watt 2m/70cm
- RX: 0.495-999.990MHz*
- Shown with Optional GPS Speaker Mic (HM-175GPS)
- 1304 Alphanumeric Memory Channels
- IPX7 Submersible*

ALL HANDHELDS ARE ANALOG + DIGITAL
All in one!

IC-91A D-STAR optional
IC-91AD D-STAR ready

ADVANCED ANALOG & DIGITAL DUAL BANDER

5 Watt 2m/70cm • 1300 Alphanumeric Memory Channels • Digital Voice/Data Ready (91AD) or Upgradeable w/Optional UT-121 (91A) • 495kHz - 999.990MHz* • V/V, U/U or V/U • Weather Alert • Dual Watch • Li-ion Power

D-STAR optional

IC-V82 & IC-U82

D-STAR UPGRADEABLE FOR 2m OR 70cm

7 Watt VHF/5 Watt UHF • 200 Alphanumeric Memory Channels • Digital Voice & Data w/Optional UT-118 • Optional Callsign Squelch • CTCSS & DTCS Encode/Decode w/Tone Scan • Weather Alert

amateur | avionic | land mobile | marine | receiver | system | www.icomamerica.com

*Frequency specs may vary. Refer to owner's manual for exact frequency specs.

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ID-RP2C
REPEATER CONTROLLER

The cornerstone of the D-STAR system. Handles up to four RF modules. Basic in-band or cross-band operation. Linking capabilities through the internet and future 10GHz backbone products.

ID-RP2D
1.2GHZ DATA MODULE

Access point with a data rate of up to 128kbps. Depending on the system setup, set up an email and/or file server for EmComm support. Perfect for web applications or support via internet connection.

ID-RP2V
1.2GHZ DIGITAL VOICE MODULE

ID-RP2000V
2M DIGITAL VOICE MODULE

ID-RP4000V
70CM DIGITAL VOICE MODULE

Finally, commercially available crossband systems! Together, with proper call sign programming in any D-STAR compatible mobile or portable, the Icom D-STAR system will automatically route your signal to any other RF module connected to a common RP2C. With simple system commands, you can direct your communications through any of the RF modules or across the world via the gateway.

D-STAR optional

NEW IC-2820H
D-STAR UPGRADEABLE 2m/70cm

50/15/5 Watt • RX: 118-173.995, 375-549.995, 810-999.99MHz* • Analog/Digital Voice with GPS (Optional UT-123) • 500 Alphanumeric Memories • Diversity Receive Capable

DIGITAL

UT-123
DIGITAL VOICE/GPS MODULE AND ANTENNA

D-STAR ready

ID-1
GO DIGITAL ON 1.2GHz

10 Watt • High Speed Digital Data, Digital Voice, Analog Voice (FM) • Wireless Internet/Network Capable • PC Control via USB port • Digital Callsign & Digital Code Squelch

D-STAR ready

ID-800H
GO DIGITAL ON 2m/70cm

55 Watt VHF/50 Watt UHF Wide RX: 118-173, 230-549, 810-999MHz* • Analog/Digital Voice & Data • Callsign Squelch CTCSS & DTCS Encode/Decode w/Tone Scan

D-STAR optional

IC-2200H
D-STAR UPGRADEABLE FOR 2m

65 Watt • 207 Alphanumeric Memories • Digital Voice & Data w/Optional UT-118 • Optional Callsign Squelch • CTCSS & DTCS Encode/Decode w/Tone Scan • Weather Alert

ICOM

*Frequency specs may vary. Refer to owner's manual for exact frequency specs.

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AES LOCATION MAPS 142
AES MANUFACTURER INFO 143
AES ORDER BLANK 138
AES POLICIES 139
AES PRICE GUIDE (by mfg. A-Z) 3-26
AES SALES STAFF 140
AES SERVICE DEPT/SHIPPING INFO 141
AES USED & DEMO EQUIPMENT 27
AMATEUR RADIO COMPARISON CHARTS 53-55

MANUFACTURERS

AIM ELECTRONICS 57, 110, 111
ALAN BROADBAND 114
ALINCO 28-31, 125, CIV
ALPHA DELTA 89, 112
AMECO 67, 114
AMERITRON 56, 58, 60, 106, 109, 112
AMPHENOL 111
ANTENEX (LAIRD) 96
ANTENNA SPECIALISTS 5
ANTENNA SUPERMARKET 130
AOR 68, 126
ARRL PRODUCTS 114, 116-120, 131
ARROW ANTENNA 95
ARTSCI 70, 117, 120
ASTRON 57
AVMAP 131
B&W 5
BMI 136
BELDEN 100, 110
BENCHER 67, 114
BETTER RF COMPANY 67, 106
BOUNTY HUNTER 137
BUCKMASTER 93, 118
BUSHNELL 137
BUTTERNUT 96
CQ PUBLICATIONS 117, 119-120
CABLE X-PERTS 110, 113
CHANNEL MASTER 101
COAX SEAL 112
COAXIAL DYNAMICS 109
COBRA 121
COMET 72-75, 93
COMMUNICATION OUTFITTERS 70
COMMUNICATIONS SPECIALISTS 65
CONNECT SYSTEMS INC (CSI) 7
CREATIVE SERVICES SOFTWARE (CSS) 69, 118
CROSS DEVICES (CRS) 112
CUSHCRAFT (LAIRD) 87, 93
CZL 111
DAIWA 57, 109, 112
DALBANI CONNECTOR 111
DAVIS 133
DCI 114
DIAMOND ANTENNA 57, 76-81, 109, 112
ECG 101
ESP 9
EASY-UP 102
ELECTRIC RADIO 120
ELK ANTENNAS 95
EXCALIBUR 137
GRE 123
GAP 64, 71
GARMIN 131
GEAR KEEPER 9
GLEN MARTIN ENGINEERING 96
GROTHE ELECTRONICS 134
GROVE 120
GRUNDIG/ETON 126, 128
HARGER 113
HEIL SOUND 62-63, 117
HIGH SIERRA 94
HOUSE OF DEALS 111, 136
HUSTLER ANTENNAS 84-86, 121
HY-GAIN 90, 100
IBS 120, 128
ICC 69
ICOM. CI, CII, 1, 32-37, 61, 65, 95, 106, 122-123, 125, 127, 144, CIII
IDIOM PRESS (LOGIKEY) 67
ISOTRON (BILAL) 91
K-COM 114
KANTRONICS 69
KENT KEYS 67
KENWOOD 38-41, 63-64, 111, 114
KESTER 135
KLEINHUIS 113
KOSS 64
LDG ELECTRONICS 104-105
LACROSSE 132
LAKEVIEW 94
LAIRD (CUSHCRAFT, ANTENEX) 87, 96
LARSEN 82-83, 121
LIGHTWAVE 16
LIDO 70
LOGSAT 118
M2 ANTENNA SYSTEMS 96, 101
MFJ. 30, 56, 58, 63-64, 66, 68-70, 91, 93-95, 97, 102-103, 107-109, 112, 114, 120, 130, 136
MAHA 58
MALDOL 72-75
MEADOW RIDGE PRODUCTS 93
MIDLAND 64, 121, 123, 133
MIRACLE ANTENNA 97
MIRAGE 61
NCG 29, 58
NCS 19
NORCOMM 65
NUTS & VOLTS 120
OUTBACKER 95
PDK TECHNOLOGIES 136
PALOMAR ENGINEERS 106, 114, 130
PALSTAR 106-107
PENETROX 112
PHILMORE 111
POLYPHASER 58, 113, 119
POWERWERX 59
PRO AM/VALOR 88
QRZ 118
RCA 130
RADIOWAVZ 92
SGC 61, 64, 102
SAMLEX AMERICA 57
SANGEAN 129
SEQUOIA 120
SHAKESPEARE 111, 122
SMILEY ANTENNA 97
SOLARCON 96, 121
SONY 130
SYNTHETIC TEXTILES 93
TERK 134
TIMES MICROWAVE 110
TIMEWAVE 65, 69, 107
TRIPP LITE 58
US TOWER 98
UNIDEN 121-122, 124-125
UNIFIED MICROSYSTEMS (W9XT) 67
UNIVERSAL TOWERS 99
VANCO 58, 63, 109, 111, 134
VECTRONICS 102, 109, 114, 137
VELLEMAN 134-135, 137
VIBROPLEX 67
W2AU (UNADILLA) 92
W4RT 69, 106
W5YI/GORDON WEST PUBLICATONS 115
WA1FFL (LADDER LOC) 93
WAHL CLIPPER CORP 136
WALNUT CREEK PUBLICATONS 118
WATSON GUPTIL PUBLICATONS 120
WELLER 135-136
WEST MOUNTAIN RADIO 59, 64, 68
WILEY 117, 120, 131, 133
WILSON 121
WINEGARD 134
YAESU 42-52, 61, 63, 65, 94, 101, 123, 126

PRODUCT TYPE

AIRCRAFT RADIOS 123
AMPLIFIERS (HF & ACCESSORIES) 60-61
AMPLIFIERS (VHF/UHF & ACCESSORIES) 61
ANTENNA TUNE CONTROLLERS 94, 106
ANTENNAS 48, 71, 73-79, 82-97
ANTENNA MOUNTS/ACC 71, 73-74, 80, 83, 85, 88, 94-97, 102
ANTENNA TUNERS/AUTOMATIC 48, 102-106
ANTENNA TUNERS/MANUAL 102-103, 106
ANTENNA WIRE 93
BALUNS/INSULATORS 90, 92-93, 105
BATTERIES/CHARGERS/ANALYZER 58-59
BOOKS/SOFTWARE/MAPS 114-120, 127, 131, 133
CB EQUIPMENT 121
CLIMBING HARNESSES 96
CLOCKS 129, 132-133, 136
COAX CONNECTORS/ADAPTERS 36, 81, 111
COAX CABLE/LADDER LINE 81, 83, 88, 92, 110
COAXIAL ANTENNA/MIC SWITCHES 29, 64, 89, 105, 112
DX BEACON 69
D-STAR CII, 1, 35, 37, 65
DACRON GUY ROPE 71, 93
DIGITAL VOICE 1, 68
DSP/NOISE REDUC/SPEECH ENHANCER 64-65, 71
DUMMY LOADS 81, 109
DUPLEXERS/TRIPLEXERS 81, 112
ELECTRONIC LAB KITS/OTHER KITS 137
ENCODERS/DECODERS 65
FAMILY RADIO/GMRS 123
FILTERS (LOW/HIGH & BANDPASS) 41, 114
FILTERS (TELEPHONE/TOROIDS) 114
FILTERS (YAESU FT-817, 857, 897) 69
FLASHLIGHTS/FLARES 136
FREQUENCY COUNTER 108
GPS/APRS 1, 38, 40-41, 83, 131
HD RADIO 129
HEADPHONES/EARPHONES 36, 41, 63-64
HF RADIOS 28, 30, 32-34, 39-40, 42-48
HT 2M FM CII, 28, 31, 35-36, 40, 43, 51-52
HT 220 MHz FM 28, 31
HT 440 MHz FM CII, 28, 31, 35, 43, 51-52
HT 2M/440 FM CII, 28, 31, 35-37, 41, 43, 51-52
HT TRI-BAND FM 36, 41, 43, 51-52
HT QUAD-BAND FM 43, 51-52
INTERNET LINKING 65
INTERNET RADIO 129
KEYS/KEYERS/PADDLES/READERS 66-67
MARINE RADIOS/ANTENNAS 122
METAL DETECTORS 137
MICROPHONES & ACC 32, 36, 41, 62, 64
MOBILE 2M FM 1, 28, 30, 34-35, 40, 43, 49-50
MOBILE 6M FM 28, 30
MOBILE 10M FM 28, 30
MOBILE 220MHz FM 28, 30
MOBILE 440MHz FM 28, 30
MOBILE 1.2 GHz D-Star 1, 35
MOBILE 2M/440 FM 1, 28, 30, 34-35, 38, 40, 43, 49-50
MOBILE MULTI-BAND FM 40, 42-43, 48-50
MOUNTS 70
MULTI-MODE DATA CONTROLLERS 69
PACKET TNC 69
PORTABLE BATTERY PACK 58
PORTABLE RADIO PACKS 70
POWER OUTLETS/PANELS 56, 58-59, 113
POWER PLUGS/ADAPTERS 58-59
POWER SUPPLIES/INVERTERS/BACKUP 28-30, 32, 50, 56-57, 59
PREAMPLIFIERS 61
QRP RADIOS 30, 34, 42, 48
QSL CARD HOLDERS 70
REPEATERS 1, 65
RECEIVERS/EMERGENCY SELF POWERED 128
RECEIVERS/PC 125, 127
RECEIVERS/SHORTWAVE 126, 128-130
RECEIVERS/WIDE RANGE & MINI 29, 125-127
ROTORS/CABLE/ACC 100-101
SCANNERS/BASE, MOBILE & HT 123-126
SIRENS & HORNS 134
SOLDERING & ACCESSORIES 135-136
SOUND CARD INTERFACES 68
SOUND LEVEL METER 135
SPEECH COMPRESSOR/PROCESSOR 69
SPEAKERS 32, 41, 50, 64, 71
SPEED GUN 137
SURGE/LIGHTNING PROTECTON 58, 81, 89, 93, 113
SWR/WATTMETERS/ANALYZERS 29, 105, 107-109
TV/STEREO ANTENNAS & ACCESSORIES 134
TALKING CHESS SET 137
TEST EQUIPMENT 58-59, 93, 107-109, 114, 135
TOOLS 59, 110, 135
TOWERS/TRIPODS/MASTS 94, 98-99, 102
VLF CONVERTERS 130
WEATHER PROTECTION 112
WEATHER RADIOS/INSTRUMENTS 132-133
WI-FI ANTENNA 68

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(T) Item too large for ground shipment. Shipment by truck only. No COD, send payment in advance or use charge card for merchandise. Freight charges collected upon delivery.

Note: Charges for truck shipments from 1-99 lbs are running a minimum of $80.00, plus local destination charges. It is advisable to contact a local freight office for a quotation.

(D) **DISCONTINUED** by Manufacturer but available from stock in limited quantities when price guide was published.

(†) **TEMPORARY LOW PRICE** due to special purchase, over stock, etc. Quantities may be limited at this price.

(Δ) Item **not** discontinued by Manufacturer but probably won't be available from AES when present stock is gone.

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SP-N	1.6kw 2.5GHz type N surge protector	$ 59.99
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ARRL (ARR)

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EDC-36 Angle plug cigarette cable w/filter	27.99
EDC-37 13.8v power cable	8.99
EDC-43 Cig lighter cable	12.99
EDH-29 Dry cell case for 4-AA's	14.99
EME-6 Earphone	12.99
EME-12 Headset w/earphone/mic/VOX	79.99
EME-13 Headset w/ear bud/mic/VOX	79.99
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EDH-18 12v to 5.5v DC/DC conv/cig plug D	19.99
EME-6 Earphone	12.99
EME-12 Headset w/earphone/mic/VOX	79.99
EME-13 Headset w/ear bud/mic/VOX	79.99
EME-15 Earphone/mic w/VOX	62.99
EME-20 Tie-pin mic & earphone Δ	14.99
EMS-47 Spkr/mic w/volume control	27.99
ESC-27 Soft case	18.99
DJ-S40T 500mw 440 FM HT/battery holder D	79.99
EBP-52N 3.6v 500mah NiMH battery	41.99
EBP-53N 6v 500mah NiMH battery	50.99
EBP-54N 3.6v 1500mah NiMH battery	54.99
EDC-37 13.8v power cable	8.99
EDC-43 Cig lighter cable	12.99
EDC-105 Drop-in NIMH battery cgr, less ps	27.99
EDC-93 Wall ps for EDC-105	12.99
EDH-31 Dry cell battery case	14.99
EME-6 Earphone	12.99
EME-12 Headset w/earphone/mic/VOX	79.99
EME-13 Headset w/ear bud/mic/VOX	79.99
EME-15 Earphone/mic w/VOX	62.99
EME-20 Tie-pin mic & earphone Δ	14.99
EMS-47 Spkr/mic w/volume control	27.99
ESC-37 Soft case D	9.99
DJ-S45T .5w 440 FM HT w/alkaline case	119.99
EME-6 Earphone	12.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
ESC-40 Soft case	17.99
EDH-27 Dry cell case w/charger; DJ-X2T D	2.99
EDH-28 DC/DC converter w/cig plug; DJ-X2T D	2.99
DJ-X3T .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	159.99
EBP-52S 3.6v 500mah NiMH battery	41.99
EDC-105 Drop-in NiMH battery cgr, less ps	27.99
EDC-93 Wall ps for EDC-105	12.99
EDH-31S Dry cell battery case	14.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
ESC-37 Soft case D	9.99
DJ-X7T .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	169.99
EBP-58N Extra lithion ion battery	41.99
EDH-32 Cigarette lighter cable	21.99
EME-18 Earphone	15.99
EME-25 Curl cord earphone	16.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
ESC-38 Soft case	16.99
DJ-X30T .1-1299MHz receiver/cell blocked	199.99
EDS-12 Remote controller cable	42.99
EME-6 Earphone	12.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
DJ-X2000T .1-2149MHz receiver/cell blocked	499.99
EBP-37N 4.8v 700mah nicad battery	38.99
EDC-16B Cigarette lighter cable w/filter D	24.99

Alinco - continued

	AES Price
EDC-36 Angle plug cigarette cable w/filter	27.99
EDC-37 13.8v power cable	8.99
EDC-43 Cig lighter cable	12.99
EDC-88 Quick charger; nicad battery packs	59.99
EDH-16 Dry cell battery case	14.99
EME-6 Earphone	12.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
ESC-28 Soft case for EBP-33N Δ	1.99
ESC-29 Soft case for EBP-37N	15.99
ESC-30 Soft case for EBP-34N/35N/36N D	4.99
DR-03T 10w 10m FM Xcvr	259.99
DR-06T 50w 6m FM Xcvr	259.99
EDC-37 13.8v power cable; ignition on/off	8.99
EDC-43 Cig lighter cable; ignition on/off	12.99
EJ-41U 1200/9600 TNC unit; DR-06T	129.99
EJ-47U Digital board; DR-06T	199.99
DR-M06TH 20w 6m FM Xcvr/encoder D	229.99
MB-130 Extra mobile bracket	21.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	12.99
DR-135T Mk III Black 50w 2m FM Xcvr	169.99
DR-235T Mk III Black 25w 220 FM Xcvr	249.99
DR-435T Mk III Black 35w 440 FM Xcvr	269.99
EDC-37 13.8v power cable; ignition on/off	8.99
EDC-43 Cig lighter cable; ignition on/off	12.99
EJ-41U 1200/9600 TNC unit	129.99
EJ-47U Digital board; Mk II/III	199.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
MB-130 Extra mobile bracket	21.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	12.99
SW-620 Windows programming software	35.99
DR-135TP Mk III Blk 50w 2m FM/9600 TNC	269.99
EDC-37 13.8v power cable; ignition on/off	8.99
EDC-43 Cig lighter cable; ignition on/off	12.99
EJ-47U Digital board; Mk II/III versions	199.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
MB-130 Extra mobile bracket	21.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	12.99
SW-620 Windows programming software	35.99
DR-635T 50/35w 2m/440 FM Xcvr	369.99
EDS-9 Separation kit	50.99
EJ-47U Digital board for DR-620T/635T	199.99
EJ-50U TNC unit for DR-620T/635T	129.99
ERW-4C PC cable	43.99
ERW-7 USB PC cable	43.99
MB-130 Extra mobile bracket	21.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	12.99
SW-620 Windows programming software	35.99
EDS-8 Adapter; EMS-14 w/DR-140/605TQ Δ	2.99
DX-70TH Comp HF Xcvr/100w 6m/mob bkt	749.99
DM-330MVT 30A switching ps/meter/32A surge	179.99
DM-340MVT 30A ps w/meters/35A surge	199.99
EBC-8 Front control head bracket	17.99
EBC-9 Extra mobile bracket	36.99
EDS-5 5' microphone extension cable	40.99
EDS-6 15' remote cable	75.99
EDX-2 160-10m 200w wire auto tuner	319.99
EMS-14 Desk top microphone	126.99
PC-25 Extra DC cable	39.99

ALPHA DELTA (ALP)

ATT-3G50 200w 3GHz type N surge protector	$ 59.99
ATT-3G50-HP 2kw 3GHz type N surge protector	59.99
ATT-3G50U 200w 500MHz UHF surge protector	49.99
ATT-3G50U-HP 2kw 500MHz UHF surge protector	49.99

Alinco - continued

	AES Price
ATT/3G50 Extra 200w arc-plug cartridge	14.99
ATT-HP/3G50HP Extra 2kw arc-plug cart	14.99
Delta-2B 500 MHz 2-pos coax switch/protector	59.99
Delta-2B/N 1.3 GHz 2-pos N switch/protector	75.99
Delta-4B 500 MHz 4-pos coax switch/protector	89.99
Delta-4/N 1.3 GHz 4-pos N switch/protector D	79.99
Delta-4B/N 1.3 GHz 4-pos N switch/protector	99.99
D-4 Extra arc-plug; Delta-2/2N/4/4N	9.99
Delta-C Kit w/ctr ins/2 end ins/static protect	29.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Delta-CIN Antenna end insulator ...each	1.99
DX-80 80m 134' complete dipole antenna	70.99
DX-40 40m 67' complete dipole antenna	70.99
DX-40/20 40/20m 40' low profile dipole ant D	79.99
DX-20 20m 34' complete dipole antenna	70.99
DX-A 160-80-40m twin sloper antenna	100.99
DX-B 160-80-40-30m 60' sloper ant	110.99
DX-CC 80-10m 5-band 82' no trap, no tuner dipole	160.99
DX-DD 80/40m 82' Delta Dipole antenna	130.99
DX-EE 40-10m 4-band 40' no trap, no tuner dipole	140.99
DX-LB 160-80-40m 100' shortened dipole	160.99
DX-LB Plus 160/80/40/20/15/10m 100' short dip	190.99
DX-SWL AM broadcast-13m 60' SWL sloper ant	120.99
DX-Ultra AM broadcast-30MHz 80' SWL dipole	160.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Pathfinder 1.8-30Mhz+6m dig auto ant tuner D	199.99

AMECO (AME)

CODE PRACTICE OSCILLATORS & CODE KEYS

K-1 Bakelite type key	$ 10.95
K-4R Brass type key	17.95
OCM-2K Code oscillator & CW monitor kit	19.99
OCM-2W Wired oscillator & CW monitor	29.99

PREAMPLIFIERS

TPA HF receive preamp & indoor active ant	$ 79.99
P-9T Power supply for TPA	9.99
PT-3 2-54 MHz transceiver preamp	139.99
P-12T Power supply for PT-3	9.99

FILTERS

HP-75T 75 ohm high-pass filter	$ 14.99
HP-300T 300 ohm high-pass filter Δ	7.99

AMERITRON (AMR)

AL-80B 1kw PEP out linear amp (3-500Z)	1299.99
AL-82 1.5kw PEP out linear amp (2 3-500Zs)	2299.99
AL-572 1.3kw PEP out linear amp (4 572Bs)	1399.99
AL-800 1250w PEP out linear (3CX800A7)	1869.99
AL-800H 1.5kw PEP out amp (2 3CX800A7)	2799.99
AL-811 600w PEP out linear amp (3 811As)	719.99
AL-811H 800w PEP out linear amp (4 811As)	869.99
AL-1200 1.5kw PEP out linear (3CX-1200A7)	2999.99
AL-1500 1.5kw out linear amplifier (8877)	3049.99
ALS-500M 500w PEP out solid state mob amp	749.99
ALS-500RC Remote head; sn 13049 & up	49.99
SPS-75 75A switching power supply w/fan	359.99
ALS-600 600w PEP out solid state amp w/ps	1129.99
ALS-600S 600w PEP out solid state amp/switching ps	1249.99
ARB-704 Amplifier Xcvr interface buffer	59.99
PNP-5M Plug & play cable; FT-847	17.99
PNP-7D Plug & play cable; TS-570S/870S/2000	17.99
PNP-8D Plug & play cable; FT-920/1000 series	17.99
PNP-8M Plug & play cbl; FT-817/840/857/897	17.99
PNP-8MK Plug & play cable; TS-480	17.99
PNP-13D Plug & play cable; IC-706/7000	17.99
PNP-35 Plug & play cable; FT-100 series	17.99
ARB-704I2 Amp Xcvr interface/cbl; IC-706/7000	59.99
ATP-100 Amplifier tuning pulser	69.99
ATP-102 Deluxe amplifier tuning pulser	79.99
ATR-20 1.2kw PEP antenna tuner	429.99
ATR-30 3kw PEP antenna tuner	559.99
ADL-1500 1.5kw dummy load with oil	74.99

Ameritron - continued

	AES Price
ADL-2500 2.5kw dummy load with fan	209.99
ICP-120 120v inrush protector	79.99
ICP-240 240v inrush protector	79.99
AWM-30 3kw PEP SWR/wattmeter/rem sens	149.99
AWM-35 3kw PEP mobile SWR/wattmeter	159.99
QSK-5 Stand alone T/R switch	339.99
QSK-5PC PC board kit; T/R switch	259.99
CF-5 Cooling fan for QSK-5	39.99
RCS-4 4-pos wireless remote coax switch	149.99
RCS-8V 160-2m 5-pos remote coax switch	159.99
RCS-8VN 160-2m 5-pos N rem coax switch	169.99
Note: RCS-8V/VN require 8-wire control cable.	
RCS-10 DC-100MHz 8-pos remote coax switch	179.99
Note: RCS-10 requires 4-wire control cable.	

ANTENEX/LAIRD (ANX)

AB-FT 118-896MHz ¼ wave NMO whip	$ 16.99
AB-SCANC VHF/UHF/800MHz NMO mob scan ant	29.99
BB-1442N 144-174 2.4db no gnd plane NMO mob	39.99
BB-1443 144-174MHz 3db 49" NMO mobile	39.99
BB-4303 430-450 3db 11 13/16" NMO mobile	34.99
CB-144/440C 2m/440 2/5db 36" NMO mobile	49.99
CWB-1443 Self-tuning 144-156 3db NMO mob	49.99
CWB-4405C Self-tuning 440-470 5db NMO mob	49.99
FG-1440/FM-2 2m 92" fg unity gain N base w/mt	129.99
FG-1443/FM-2 2m 107" fg 3db N base ant w/mt	199.99
FG-4403/FM-2 440-450 44" fg 3db N base w/mt	149.99
FG-4405/FM-2 440-450 76" fg 5db N base w/mt	199.99
GB-8PSTI NMO mag mt w/coax & teflon PL259	34.99
LBMB-9034 Mirror mt ¾" hole L-bracket	10.99
MB-8PST NMO hole mt w/coax & teflon PL259	16.99
TM8-PST Chrome NMO mini trunk mt/coax/PL259	26.99
TRABT-1420 142-164 Phantom whipless NMO	59.99
TRAB-4303 430-450 3db Phantom whipless NMO	29.99
VTPM NMO mt;up to 1" thick plate (UHF barrel)	19.99
Y-1363 136-150MHz 3el 7.1db gold Ñ beam	99.99
Y-1365 136-150MHz 5el 9.2db gold N beam	129.99
Y-4303 430-450 3el 7.1db gold welded N beam	99.99
Y-4305 430-450 5el 9.2db gold welded N beam	129.99

Antenna Specialists (ASP)

APR143 2m 23" on glass cell look-alike ant Δ	$ 59.99
APS151 2m 3db 33" on glass antenna Δ	69.99
KAV-353 On glass replacement mtg kit Δ	13.99

Antenna Supermarket (ANT)

Eavesdropper* 60-11m trap dipole SWL ant	$ 99.99
*Specify **SO-239** or **twin**-lead	

ARROW Antenna (ARA)

146/437-10 3 el 2m/7 el 440 handheld beam	$ 73.00
146/437-10BP 3el 2m/7el 440 HH split bm beam	79.00
10w duplexer (installs in boom) w/BNC	59.00
10w **duplexer** (installs in boom) w/**SMA**	64.00
OSJ-146/440 2m/440 57.5" J-pole antenna	39.00

ARTSCI (ART)

Lost Users Manuals	$ 19.95
Repeater Mapbook 14th edition	14.99

ASTRON (ASR)

RS-4L 3A ps, 4A surge, w/cig lighter socket	$ 49.99
RS-7A 5A power supply, 7A surge	59.99
RS-10A 7.5A power supply, 10A surge	69.99
RS-12A 9A power supply, 12A surge	79.99
RS-12S 9A ps, 12A surge, w/speaker Δ	69.99
RS-20A 16A power supply, 20A surge	99.99
RS-35A 25A power supply, 35A surge	149.99
RS-35A/220V 220v 25A ps, 35A surge Δ	139.99
RS-50A 37A power supply, 50A surge	219.99
RS-70A 57A power supply, 70A surge	279.99
RS-20M 16A ps w/meters, 20A surge	119.99
RS-35M 25A ps w/meters, 35A surge	169.99

Astron - continued

	AES Price
RS-50M 37A ps w/meters, 50A surge	239.99
RS-70M 57A ps w/meters, 70A surge	299.99
VS-20ML Variable 16A ps/meters, 20A surge	139.99
VS-35M Variable 25A ps/meters, 35A surge	199.99
VS-50M Variable 37A ps/meters, 50A surge	259.99
RM-35M 25A rack mt ps/meters, 35A surge	259.99
RM-50M 37A rack mt ps/meters, 50A surge	299.99
RM-60M 50A rack mt ps/meters, 55A surge	389.99
SS-25 20A switching ps, 25A surge	119.99
SS-25M 20A switching ps/meters, 25A surge	139.99
SS-30 25A switching ps, 30A surge	129.99
SS-30M 25A switching ps/meters, 30A surge	149.99
N2412-12 10A 22-32vdc to 13.8vdc converter	59.99
N2412-24 20A 22-32vdc to 13.8vdc converter	89.99

AvMap (AVM)

G-4T Geosat 4 GPS/THD7A/TMD700A cable Δ	$499.99
G-5 Geosat 5 GPS/THD7A/TMD700/710A cable	649.99

BMI (BMI)

972AD 14" 12/24-hour wall clock	$ 32.99
973A 12" 24-hour wall clock	49.99

B & W (B&W)

AC-110 Continuous 1.8-30 MHz vee ant D	$299.99
AP-10B 51" portable 40/20/15/10/6/2m ant D	89.99
BWD-20 14-30 MHz 20' folded dipole D	289.99
BWD-45 7-30 MHz 45' folded dipole D	289.99
BWD-65 4-30 MHz 65' folded dipole D	299.99
FDMK Mtg kit; folded dipole/3 pole installation D	45.99

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216 RG-174 (sub-miniature)	per ft.	$ .42
8216	**100** ft. Roll	40.99
8216	**500** ft. Roll	144.99
8216	**1000** ft. Roll	269.99
8240 RG-58U (solid center)	per ft.	.44
8240	**100** ft. Roll	42.99
8240	**500** ft. Roll	154.99
8240	**1000** ft. Roll	289.99
8259 RG-58AU (stranded center)	per ft.	.48
8259	**100** ft. Roll	46.99
8259	**500** ft. Roll	159.99
8259	**1000** ft. Roll	289.99
8219 RG-58AU (stranded, foam)	per ft.	.46
8219	**100** ft. cut	44.99
8219	**500** ft. Roll	169.99
8219	**1000** ft. Roll	309.99
8262 RG-58CU (non-contaminating)	per ft.	.49
8262	**100** ft. cut	46.99
8262	**500** ft. Roll	199.99
8262	**1000** ft. Roll	374.99
9258 RG-8X (stranded, foam)	per ft.	.54
9258	**100** ft. cut	49.99
9258	**500** ft. cut	199.99
9258	**1000** ft. Roll	369.99
8237 RG-8U	per ft.	.99
8237	**100** ft. Roll	94.99
8237	**500** ft. Roll	369.99
8214 RG-8U (foam)	per ft.	.94
8214	**100** ft. Roll	89.99
8214	**500** ft. Roll	424.99
8214	**1000** ft. Roll	809.99
9913 RG-8U (low loss)	**100** ft. Roll	96.99
9913	**250** ft. Roll	199.99
9913	**500** ft. Roll	379.99
9913F7 RG-8U (low loss, flexible)	per ft.	1.24
9913F7	**100** ft. Roll	119.99
9913F7	**250** ft. Roll	249.99

Belden - continued

		AES Price
9913F7	**500** ft. Roll	444.99
8267 RG-213 (non-contaminating)	per ft.	1.29
8267	**100** ft. cut	124.99
8267	**500** ft. Roll	554.99

75 OHM COAXIAL CABLE

8241 RG-59U (73 ohm, solid center)	per ft.	$ .48
8241	**100** ft. Roll	45.99
8241	**500** ft. Roll	144.99
8241	**1000** ft. Roll	269.99
9248 RG-6U (75 ohm, solid center)	per ft.	.52
9248	**1000** ft. Roll	384.99
8238 RG-11 (75 ohm, stranded center)	per ft.	1.34
8238	**100** ft. cut	124.99
8238	**500** ft. Roll	499.99
8213 RG-11 (75 ohm, solid, foam)	per ft.	1.29
8213	**100** ft. cut	119.99
8213	**500** ft. Roll	479.99

ROTOR CABLE

8484 4-wire; 4-20 gauge	per ft.	$ .49
8484	**100** ft. cut	45.99
8484	**500** ft. Roll	204.99
8484	**1000** ft. Roll	389.99
8448 8-wire; 2-18, 6-22 gauge	per ft.	.54
8448	**100** ft. cut	49.99
8448	**500** ft. Roll	209.99
8448	**1000** ft. Roll	399.99
9405 8-wire; 2-16, 6-18 gauge	per ft.	1.19
9405	**100** ft. cut	114.99
9405	**500** ft. Roll	489.99
9405	**1000** ft. Roll	924.99

COPPERWELD ANTENNA WIRE

8000 No. 14 stranded antenna wire	per ft.	$ .50
8000	**100** ft. Roll	44.99
8000	**1000** ft. Roll	349.99

No. 8 ALUMINUM GROUND WIRE

8018 Multiples of **50** ft.	each	$ 27.99

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

FOAM COAX w/PL-259s ON BOTH ENDS

9354 50' RG-8U foam	$ 99.99
9355 75' RG-8U foam	134.99
9356 100' RG-8U foam	154.99

BENCHER (BEN)

BY-1 Iambic keyer paddle w/black base	$114.99
BY-2 Iambic keyer paddle w/chrome base	139.99
BY-3 Iambic keyer paddle, gold plated Δ	299.99
BY-4 Iambic paddle/blk base/gold components	179.99
170-82 Mercury paddle drop ship	449.99
ST-1 Single lever keyer paddle, black base	119.99
ST-2 Sgl lever kyr paddle, chrome base	139.99
RJ-1 Dlx hand key w/navy knob/black base	110.99
RJ-2 Dlx hand key w/navy knob/chrome base	135.99
YA-1 1kw low pass filter	90.99

BETTER RF (BET)

706 Tune Control for IC-706 series/IC-718	$ 32.99
7000 Screwdriver Control* for IC-7000	84.99
*Requires 7000 Tune Control also	
7000 Tune Control for IC-7000	54.99
I-Mate Msg acc; 746PRO/756PRO II/III/7800	74.99
Yae Tune Control for FT-100/450/857/897/950	44.99

Bounty Hunter (BOU)

Fast Tracker Metal detector/2-tone target ID Δ	$ 69.99
Tracker IV Metal detector/3-mode	129.99
Quick Draw II Metal detector/full motion	229.99

Bounty - continued

	AES Price
Sharp Shooter II Metal detector/LCD readout	269.99
Land Star Metal detector/3-tone audio discrim	299.99
Land Ranger Metal detector/programmable	399.99
Time Ranger Metal detector/top-of-the-line	499.99
Carry Bag For Bounty Hunter metal detectors	29.99
10" Coil 10" magnum coil; adds depth	49.99

BUCKMASTER (BUC)

HamCall CD-ROM ham listings	$ 50.99
OCF 7-band 300w 135' off-center-fed dipole	191.99

BUSHNELL (BUS)

10-1911 Velocity sports speed gun	$ 99.99
78-0101 1.25" 9mm Kellner eye; 0040/6000/8000 Δ	19.99

BUTTERNUT (BUT)

Skyhawk 3X10 Triband 10 el, 24' beam w/bauln *	1149.99

***Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.**

HF-6VX 80/40/30/20/15/10m 26' vert ant	389.99
HF-9VX 80/40/30/20/17/15/12/10/6m 26' vert	449.99
A17-12 17 & 12m kit for HF-6VX	66.99
CPK Counterpoise kit	169.99
MPS Mounting post sleeve	14.99
RMK-II Roof mounting kit w/radials	189.99
STR-II Radial kit only	144.99
TBR-160S 160m resonator	159.99
HF-2V 80/40m 32' vertical	299.99
TBR-160S 160m resonator	159.99

CQ (CQX)

Building and Using **Baluns** and Ununs	$ 19.99
HR Anthology - Homebrewing Techniques	19.99
W6SAI HF Antenna Handbook	19.99

CSS (CSS)

Pacterm for Windows Software; Kan TNCs	$ 99.99
PKTerm for Windows Software; PK-12/96/232	99.99

CABLE X-PERTS (CAB)

CXP1318FX CXP1318FX (low loss, flexible) per ft.	$ 1.04
CXP1318FX .....**500** ft. Roll	476.99
CXP1318FC-3 3' CXP1318FX/silver teflon PL259s	22.99
CXP1318FC-50 50' CXP1318FX/silver teflon PL259s	77.99
CXP1318FC-75 75' CXP1318FX/silver teflon PL259s	102.99
CXP1318FC-100 100' CXP1318FX/silver teflon PL259s	133.99
CXP1318FC-150 150' CXP1318FX/silver teflon PL259s	186.99
CXP1318FN-3 3' CXP1318FX/type N males	29.99
CXP1318FN-6 6' CXP1318FX/type N males	32.99
CXP1318FN-10 10' CXP1318FX/type N males	35.99
CXP1318FN-25 25' CXP1318FX/type N males	54.99
CXP1318FN-50 50' CXP1318FX/type N males	83.99
CXP1318FN-75 75' CXP1318FX/type N males	116.99
CXP1318FN-100 100' CXP1318FX/type N males	139.99
CXP1318FN-125 125' CXP1318FX/type N males	170.99
CXP008C-3 3' RG8 foam/silver teflon PL259s	22.99
CXP008C-6 6' RG8 foam/silver teflon PL259s	25.99
CXP008C-25 25' RG8 foam/silver teflon PL259s	37.99
CXP008C-50 50' RG8 foam/silver teflon PL259s	55.99
CXP008C-75 75' RG8 foam/silver teflon PL259s	73.99
CXP008C-100 100' RG8 foam/silver teflon PL259s	98.99
CXP008C-125 125' RG8 foam/silver teflon PL259s	115.99
CXP213C-6 6' RG213/silver teflon PL259s	26.99
CXP213C-15 15' RG213/silver teflon PL259s	36.99
CXP213C-25 25' RG213/silver teflon PL259s	47.99
CXP213C-50 50' RG213/silver teflon PL259s	73.99

Cbl X-perts - continued

	AES Price
CXP213C-75 75' RG213/silver teflon PL259s	96.99
CXP213C-100 100' RG213/silver teflon PL259s	118.99
CXP08XC-18IN 18" RG8X/silver teflon PL259s	14.99
CXP08XC-3 3' RG8X/silver teflon PL259s	16.99
CXP08XC-6 6' RG8X/silver teflon PL259s	18.99
CXP08XC-12 12' RG8X/silver teflon PL259s	22.99
CXP08XC-25 25' RG8X/silver teflon PL259s	26.99
CXP08XC-50 50' RG8X/silver teflon PL259s	36.99
CXP08XC-75 75' RG8X/silver teflon PL259s	47.99
CXP08XC-100 100' RG8X/silver teflon PL259s	57.99
6633S Type N male plug	6.99
CXP058ARBP-3 3' RG58/ft angle BNC male - PL-259	19.99
CXP058ARBS-3 3' RG58/BNC male - SO-239	30.99
CXP142SBJ-3 3' RG142/SMA male - BNC female	28.99
CXP08XCB-3 3' RG8X/male BNCs	27.99
CXP08XCB-6 6' RG8X/male BNCs	29.99
CXP316RSSO-3 3' RG316/SMA male - SO-239 D	22.99
235 1" tinned copper ground braid .....per ft	1.44
235 .....**100** ft. Roll	124.99
2332 ½" tinned copper ground braid ...per ft.	.89
2332 .....**100** ft. Roll	70.99
AZ-12 12ga red/black DC power cord ...per ft	1.10
AZ-12 .....**100** ft. Roll	95.99

CAT Comm (CAT)

NVSCAN-1 Southern NV Radio Scanning Directory	$ 16.99

CELESTRON (CEL)

52211 60mm wildlife zoom spotting scope/tripod D	$ 79.99
93353 1.25" 18mm Utima lens .....Δ	49.99
93497 Standard tripod .....Δ	69.99
93700 CD-ROM "The Sky for Celestron" .....Δ	9.99

Channel Master (CHA)

9521A Prog light duty rotor/IR rem cont/3-wire	$ 99.99

CLOCKS

BMI **972AD** 14" 12/24-hour wall clock	$ 27.99
BMI **973A** 12" 24-hour wall clock	49.99
LAC **WT-3102S** 10" 12-hr analog atomic clock	19.99
MFJ **105C** 24-hour quartz wall clock	24.99
MFJ **107B** 24-hour digital clock	12.99
MFJ **108B** 24/12-hour dual disp digital clock	21.99
MFJ **112B** Deluxe world map clock	29.99
MFJ **113** 24/12-hr 1.8" LED clock/batt back-up	19.99
MFJ **118** Giant 24/12 hour LCD clock	29.99
MFJ **123** Eternity solar atomic clock .....D	59.99
MFJ **123B** Eternity solar atomic clock	79.99
MFJ **125** Calendar 24-hour analog wall clock	34.99

COAX SEAL (UNV)

104 ½" x 60" coax seal	$ 3.99

Coaxial Dynamics (COA)

81000-A Wattmeter w/SO-239s	$289.99
83000-A Peak reading wattmeter w/SO-239s	413.99
82004 50w 2-30MHz element	105.99
82005 100w 2-30MHz element	105.99
82006 250w 2-30MHz element	105.99
82007 500w 2-30MHz element	105.99
82008 1000w 2-30MHz element	105.99
82009 2500w 2-30MHz element	139.99
82010 5000w 2-30MHz element	139.99
82013 10w 25-60MHz element	75.99
82014 25w 25-60MHz element	75.99
82015 50w 25-60MHz element	75.99
82016 100w 25-60MHz element	75.99
82029 10w 100-250MHz element	75.99
82031 50w 100-250MHz element	75.99
82033 250w 100-250MHz element	75.99
82046 10w 400-1000MHz element	75.99
82048 50w 400-1000MHz element	75.99
82049 100w 400-1000MHz element	75.99

Coaxial Dyn - continued

	AES Price
88000 N female quick match connector each	13.99
88800 Carrying case for meter	72.99

COBRA (COB)

19DX IV AM Mobile CB	$ 49.99
25LTD (25LTD Classic) AM Mobile CB	89.99
25WXNW ST Night Watch Sound Tracker AM Mob CB/WX	109.99
29LTD (29LTD Classic) AM Mobile CB	99.99
29NW Night Watch AM Mobile CB	119.99
29WXNW ST Night Watch Sound Tracker AM Mob CB/WX	129.99
75WX ST Sound Tracker AM Mobile CB w/WX	99.99
148GTL SSB/AM Mobile CB	149.99
HH-Road Trip Sound Tracker HH CB/WX/mag ant	79.99
HGA-1000 Magnet mt CB antenna	29.99
HGM-77 Noise canx/amplified mobile mic	24.99

COMET (CMT)

SWR/POWER METER

CMX-1 1.8-60MHz 2kw remote SWR/pwr meter	$169.99
EKS-3 Optional 10' extension cable for CMX-1	28.99

MOBILE ANTENNAS

B-10 2m/440 0/2.15db 12" cell look-alike ant	$ 42.99
B-10NMO 2m/440 0/2.15db 12" cell look-alike NMO	42.99
CA-2X4SR 2m/440 3.8/6.2db 40" mob ant	69.99
CSB-750A 2m/440 3.6/6.1db 42" foldover ant	72.99
CSB-770A 2m/440 4.4/6.9db 51" foldover ant	89.99
CSB-790A 2m/440 5.1/7.7db 62" foldover ant	115.99
HP-32FHN 2m/440 3/5.5db 34" 350/250w ant	89.99
M-24B 2m/440 1.7/4.1db mag mt ant w/BNC	39.99
M-24M 2m/440 1.7/4.1db mag mt ant w/PL259	39.99
M-24S 2m/440 1.7/4.1db mag mt ant w/SMA	39.99
SBB-1 2m/440 1.5/2.15db 16" flex mobile	42.99
SBB-1NMO 2m/440 1.5/2.15db 16" flex NMO	42.99
SBB-2 2m/440 2.15/3.8db 18" black mobile	42.99
SBB-2NMO 2m/440 2.15/3.8db 18" blk NMO	42.99
SBB-5 2m/440 3/5.5db 39" black mobile ant	58.99
SBB-5NMO 2m/440 3/5.5db 39" black NMO	58.99
SBB-7 2m/440 4.5/7.2db 58" black mob ant	79.99
SBB-7NMO 2m/440 4.5/7.2db 58" black NMO	79.99
SB-14 6m/2m/440 43" chrome mobile ant	67.99
SB-15 6m/2m/440 0/4.5/7.2db 58" chr mob	84.99
SBB-25 2m 4.1db black mobile antenna	48.99
SBB-25NMO 2m 4.1db black NMO mob ant	48.99
SB-97 2m/440/1.2 3/6.8/9.6db 39" type N	84.99
SB-123 1.2GHz 7.2db 24" type N mobile ant	54.99
SBB-224 2m/220/440 2.15/3.5/6db blk mob	78.99
SBB-224NMO 2m/220/440 2.15/3.5/6db blk NMO	78.99
SF-245 2.4 GHz 7db 18" fg type N ant .....Δ	39.99
SF-245SPRR 2.4GHz 7db 18" fg N ant/spring	59.99
UHV-4 10/6/2/440 55" mobile ant; FT8900R	109.99
HV-R 40/15/10/6m base station radial kit	119.99
UHV-6 40/15/10/6/2m/440 78" mobile ant	159.99
HV-R 40/15/10/6m base station radial kit	119.99
L-3.5 80m loading coil for UHV-6	34.99
L-14 20m loading coil for UHV-6/CA-HV	29.99
L-18 17m loading coil for UHV-6/CA-HV	29.99

MOBILE MOUNTS

3D4M Mobile mt, 13' coax w/UHF connectors	$ 26.99
3D4N Mobile mt, 13' coax w/type N	26.99
3D5M Mobile mt, 16.5' coax w/UHF connectors	28.99
5D4N Roof mount, 13' coax w/type N	34.99
AD-10N NMO mount to female N adapter	21.99
AD-15M NMO mount to SO-239 adapter	21.99
AD-25M SO-239 to NMO mount adapter	15.99
AD-35M ⅜-24 stud to UHF mobile mt adapter	17.99
CK-3-3/8-24 Dlx 2-step 16.5' cbl/3/8-24/UHF	42.99
CK-3M Dlx 2-step 9'9" cable w/UHF connectors	35.99
CK-3M5 Dlx 2-step 16.5' cable w/UHF connects	42.99
CK-3NMO Dlx 2-step 16.5' cable w/NMO/UHF	42.99
CK-5N Dlx 13' cable assembly w/type N	49.99
CM-5M Hvy duty mag mt, coax, max 4' ant	24.99
CP-5-3/8-24 HD ⅜-24 mt (RS-730) w/16.5' coax	69.99

Comet - continued

	AES Price
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax	69.99
CP-5NMO Hvy duty NMO mt (RS-730) w/16.5' coax	69.99
CR-5M Std coax assy, 16.5' coax, UHF conn	19.99
CT-5M Trunk lip mount w/16.5' coax	39.99
GRB-5M Deluxe black trunk lip mt w/coax	69.99
HD-5-3/8-24 HD ⅜-24 lip mt (RS-840) w/16.5' coax	69.99
HD-5M Hvy duty lip mt (RS-840) w/16.5' coax	69.99
MG-4N Magnet mt w/13' coax, N connector	54.99
RS-520 Mini heavy duty trunk/hatch mount	28.99
RS-560C Luggage rack mount, no coax	37.99
RS-720 Hatch/rear door/tnk multi-adj mt	29.99
RS-720NMO Hch/rear door/tnk multi-adj NMO mt	29.99
RS-730 HD rear van/SUV door/tnk lip mt, no coax	32.99
RS-840 HD low profile lip mt w/lateral support	32.99
WS-1M Window clip mt w/UHF connectors	66.99

BASE STATION ANTENNAS

CA-712EF 440 9db 10' 5" base antenna	$109.99
CA-ABC22A 2m 6.5db 9' 5" base/rptr ant	75.99
CA-ABC23 2m 7.8 db 13' 4" base/rptr ant	109.99
CA-F72GF 440-470 6db 3' 6" tunable ant	109.99
CA-52HB4 6m 4 el 10.4db 10' 6" boom beam	139.99
CHA-250B 3.5-57MHz no radials 23.5' vertical	429.99
CX-333 2m/220/440 6.5/7.8/9db 10.25' ant	189.99
CYA-1216E 1.2GHz 16el 16.6db 4' 5" bm N beam	109.99
DS-150S 6m/2m/440/900/1.2 discone/60' coax	99.99
GH-50 6m 2.15db 7' 10" fg base antenna	109.99
GP-1 2m/440 3/6db 4' 1" base/rptr antenna	74.99
GP-3 2m/440 4.5/7.2db 5' 11" base/rptr ant	99.99
GP-6 2m/440 6.5/9db 10' 2" base/rptr ant	159.99
GP-9 2m/440 8.5/11.9db 17' 8" base/rptr	219.99
GP-9N 2m/440 8.5/11.9db 17' 8" N base/rptr	219.99
GP-15 6/2m/440 3/6.2/8.6db 7' 11" base	179.99
GP-21/CA-1221S 1.2 14.8db 8' N base/rptr	169.99
GP-24R 2.4GHz 15.4db 5' 10" N base/rptr	149.99
GP-95 2m/440/1.2 6/8.6/12.8db 8' 1-pc N ant	159.99
GP-98 2m/440/1.2 6.5/9/13.5db 9' 8" N ant	169.99
H-422 40/20/15/10m 34' rotatable dipole	349.99
KP-20 900 MHz 9.2db 7' 4" type N base/rptr	119.99

DUPLEXERS AND TRIPLEXERS

CF-142 1.3-150/200-480 600/400w UHF/leads	$ 69.99
CF-360A 1.3-30/50-470 600w UHF w/leads	69.99
CF-360B 1.3-30/50-470 600w UHF/common lead	69.99
CF-416A 2m/440 800/500w SO239/PL259/leads	49.99
CF-416B 2m/440 800/500w UHF/N w/leads	49.99
CF-416C 2m/440 800/500w N/UHF/N leads	54.99
CF-416W 1.3-250/400-1400 400/200w N/leads	69.99
CF-530 1.3-90/125-470 600w UHF w/leads	74.99
CF-530C Backwards duplexer for FT-8900R	69.99
CF-706A 1.3-56/75-470 350w UHF w/leads	74.99
CF-4130B 1.3-460/840-1400 800/500/200w UHF/N	49.99
CF-4160I 2m/440 800/500w UHF/UHF/N, no leads	48.99
CF-4160J 2m/440 800/500w SO239, no leads	53.99
CF-4160K 2m/440 800/500w all UHF, no leads	48.99
CFX-324A 2m/220/440 600w UHF w/leads	88.99
CFX-324B 2m/220/440 600w UHF, no leads	85.99
CFX-514 HF/2m/440 800/800/500w UHF w/leads	79.99
CFX-514J HF/2m/440 800/800/500w UHF, no leads	74.99
CFX-514N HF/2m/440 800/800/500w UHF/N w/leads	79.99
CFX-4310C 1.3-150/440/1.2 triplexer, no leads	79.99
CFX-5140 HF/6m/2m/440 800/800/500w UHF, no leads	74.99

HT & HANDHELD SCANNER ANTENNAS

BNC-24 2m/440 17" 2.15/5.3db BNC whip	$ 24.99
CH-32 2m/440 1.75" BNC Miracle Baby ant	29.99
CH-75 2m/440 0/3.2db 14.75" BNC ant	25.99
HB-05 18" BNC female - SMA male adapter/cbl	14.99
HM-05 18" BNC male - SO-239 adapter/cable	14.99
HS-05 18" SMA male - SO-239 adapter/cable	14.99
HS-10 39" SMA male - SO-239 adapter/cable	17.99
HT-224 2m/220/440 11.5" SMA antenna	47.99
SH-55 2m/440 1.5/3.2db 15" BNC ant	33.99
SH-95 2m/440/1.2 1.5/2.15/5.5db BNC ant	34.99

Comet - continued

	AES Price
SMA-3 2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24 2m/440 17" 2.15/5.3db SMA whip	24.99
SMA-501 2m/440/900 1.5" SMA antenna	29.99
SMA-503 2m/440 8.75" SMA antenna	29.99
SMA-703 2m/440/1.2GHz 6.5" SMA ant	31.99

Comm Outfitters (COF)

EXP-1 Expedition Pack for Yaesu FT-817	$ 99.99

COMM-SPEC (COM)

ID-8 Automatic morse station identifier	$ 69.99
SS-64 64-tone mini prog CTCSS encoder	28.99
TE-32 32-tone CTCSS prog encoder box	49.99
TS-64DS 64-tone CTCSS prog encoder/decoder	57.99

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)

83-1SP-1050 Male coax plug (PL-259)	$ 2.49
83-1SP Silver plated coax plug (PL-259)	2.99
(CZL) **401TS** silver plated teflon PL-259 Δ	1.99
83-168-RFX Reducer; RG-59/RG-8X (UG-176)	.99
83-185-RFX Reducer for RG-58 (UG-175)	.99
(SHA) **PL-259-CP-G** Solderless PL259;RG8X/58	6.99
(SHA) **PL-258-CP-G** Solderless splice;RG8X/58	9.99
83-1AP Right angle adaptor (UG-646)	10.99
83-1J Double female adaptor (PL-258)	8.99
83-1R Female chassis mt socket (SO-239)	3.99
83-1T T-connector adaptor (M-358)	14.99
83-877 Double male adaptor	19.99
83-878 Single hole ⅝" chassis socket	5.99
31-002 BNC male connector for RG-58	5.99
31-012 BNC male connector; RG-59/RG-8X	9.99
31-221 BNC female chassis socket	2.99
82-24 Type N female chassis mt socket	9.99
82-64 Type N right angle adaptor	19.99
(CAB) **6633S** Type N male; 8214/9913/9913F	6.99
82-202-1006 Type N male; 8214/9913/9913F	8.99
34025 Type N male connector for RG-58	11.99

AMPHENOL COAX ADAPTORS (AMP)

2900 SO-239 to BNC male adaptor	$ 14.99
4400 SO-239 to type N male adaptor	17.99
31-28 BNC female to PL-259 adaptor	19.99
(HOU) **SMA-872** SO-239 to SMA plug adaptor	5.99

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

25-7365 BNC female to SO-239	$ 3.99
25-7420 BNC male to SO-239	3.99
26-8010 Type N double female	4.99
26-8011 Type N chassis mount	3.99
26-8014 N female to PL-259	4.99
26-8015 N male to SO-239	5.99
26-8016 BNC female to N male	6.99
26-8017 BNC male to N female	4.99
27-8120 BNC female to PL-259	3.99
27-8130 BNC double male	3.99
27-8140 BNC T; 2 female, 1 male	2.99
27-8150 BNC right angle adapter	3.99
27-8470 Dual BNC chassis mount D	3.99
29-3855 BNC female to SMA male	4.99
29-4140 SO-239 to mini PL-259	3.99
CPAD-207 Chassis mt SO-239 double female	5.99
CPAD-556M Dual BNC chassis mount	4.99
CPAD-809 BNC female to N male D	6.99

VANCO MICROPHONE CONNECTORS (VCO)

CBC-4 4-pin female mic plug	$ 4.99
CBC-5 5-pin female mic plug	3.99
CBC-6 6-pin female mic plug	4.99
(PHI) **61-608B** 8-pin female mic plug	4.99
CBC-8P Panel mt 8-pin male	5.99

KENWOOD DIN PLUGS (KEN)

7-pin DIN plug	$ 4.99
8-pin DIN plug	6.99

Connectors - continued

	AES Price
13-pin DIN plug	9.99

VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1 Magnetic mic holder	$ 2.99
MH-2 Regular mic holder	1.49
P-12R 2-contact cigarette plug	2.99
P-12V Cig lighter plug w/leads	2.99
P-12X Solderless cig lighter plug	1.99
P-35 3.5mm miniature phone plug	.69
P-212 2-outlet cigarette plug adapter	4.99
P-212B Dual cigarette lighter socket adapter	8.99
(DAL) **15-0293** 3.5mm mono phone plug Δ	.19
(HOU) **AP-115** ¼" metal stereo plug	1.99
(HOU) **AP-135** 3.5mm stereo mini phone plug	.69
(HOU) **VCC-6B** 20 pack of cable clips; RG6/8X Δ	.99

Connect Systems (CSY)

CS-800 Desk duplex interconnect/rptr controller Δ	$289.99

CROSS DEVICES (CRS)

STUF Coax connector waterproofing filler	$ 5.99

CUSHCRAFT (CUS)

At Cushcraft's request, amateur radio dealers are not authorized warranty depots for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S 2m, 3 el wideband beam, 7.8db	$ 77.99
A148-10S 2m, 10 el wideband beam, 13.2db	124.99
A449-6S 440 MHz, 6 el, 3' boom, 10 db	73.99
A449-11S 440 MHz, 11 el, 4.5' boom, 13 db	99.99

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S 2m/440, 3/3 el, 2.8' boom, 7.8 db	$ 99.99
A270-10S 2m/440, 5/5 el, 6.17' boom, 10 db	129.99

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 BEAM

A6270-13S 6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	$249.99

FM RINGOS - 1/2 Wave Verticals

AR-10 10m FM Ringo, 17.6', 3db, 1000w	$ 99.99
AR-6 6m FM Ringo, 10.1', 3db, 1000w	99.99
AR-2 2m FM Ringo, 3.9', 3db, 1000w	59.99
AR-450 440MHz FM Ringo, 1.4', 3db, 500w	45.99

RINGO RANGERS - FM Verticals

ARX-2 2m FM Ringo Ranger	$ 69.99
ARX-2B 2m FM Ringo Ranger II, 14', 7db, 1000w	84.99
ARX-220B 220 FM Ringo Ranger II, 9.3', 7db, 500w	84.99
ARX-450B 440FM Ringo Ranger II, 4.9', 7db, 500w	84.99

DUAL-BAND 2M/440 FM RINGOS

AR-270 2m/440MHz FM, 3.75', 3/5.5db, 250w	$114.99
AR-270B 2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	124.99

TWIST, OSCAR BEAM (Horiz/Vert Polarization)

A148-20T 2m 20el 10.8'boom 13db twist	$174.99

BOOMER ANTENNAS

124WB 2m Boomer, 4 el, 4' boom, 10.2 db	$109.99
13B2 2m Boomer, 13 el, 15' boom, 14.2 db	199.99
17B2 2m Boomer, 17 el, 31' boom, 18 db	299.99
26B2 2 13B2s vertically stacked	499.99
224WB 220 Boomer, 4 el, 3' boom, 10.2db	96.99
719B 432 19 el 13.5' boom 15.5db	189.99

BOOMER POWER DIVIDERS

PD-2 Power divider for 2 13B2s	$ 71.99
PD-4 Power divider for 4 13B2s	89.99

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S 6m, 3 el, 6' boom, 8 db, stainless hdwre	$139.99
A50-5S 6m, 5 el, 12' boom, 10 db, stainless hdwre	219.99
A50-6S 6m, 6 el, 20' boom, 11db, stainless hdwre	349.99
A148-10S 2m, 10 el wideband beam	124.99
A430-11S 430 MHz, 11 el, 4' boom, 13 db	99.99

*Antennas can be mounted vertically or horizontally!

Cushcraft - continued AES Price

MONO-BAND MOBILE ANTENNAS

CS-28M	10m magnet mt antenna	$ 64.99
CS-50M	6m magnet mt 3 db antenna	64.99
CS-147A	2m coil & whip only	44.99
CS-147M	2m magnet mt 3 db antenna	64.99
CS-220M	220 magnet mt 3 db antenna	64.99
CS-450M	440 magnet mt 5 db antenna	64.99

DUAL-BAND 2M/440 MOBILE ANTENNAS

CS-270A	2m/440 coil & whip only	$ 64.99
CS-270M	2m/440 3.7/6 db magnet mt ant	89.99

MOUNTS ONLY FOR MOBILE ANTENNAS

CS-MG	Magnetic mount	$ 32.99
CS-MGN	Magnetic mount w/N connector	37.99
CS-TL	Trunk lip mount	32.99

MULTIBAND HF VERTICAL ANTENNAS

MA-5V	20/17/15/12/10m 14.7' vertical ant D	$229.99
MA-5VA	20/17/15/12/10m 14.7' vertical ant	259.99
MA-6V	20/17/15/12/10/6m 14.7' vertical ant D	269.99
MA-6VA	20/17/15/12/10/6m 14.7' vertical ant	319.99
MA-160V	160m 36' vertical ant w/radials	249.99
MA-8040V	80/40m 22' vertical antenna	259.99
R-6000	20/17/15/12/10/6m 19' vertical	369.99
R-8	40/30/20/17/15/12/10/6m 28.5' vert	539.99
R-8GK	Guy kit for R-8	56.99

ROTATABLE HF DIPOLES

D-3	20/15/10m World Ranger rotatable dipole	$299.99
D-3W	30/17/12m rotatable dipole	299.99
D-4	40/20/15/10m World Ranger rotatable dipole	419.99
D-40	40m World Ranger rotatable dipole	369.99

BIG THUNDER HF TRI-BAND BEAM

X-7	20/15/10m, 7 el, 18' boom, 12.5/13db	$799.99
X-740	40m add-on kit for X-7	349.99

BIG THUNDER HF MONOBAND BEAM

XM-240	40m, 2 el, 22' boom, 7 db	$829.99
TEN-3	10m, 3 el, 8' boom, 8 db	249.99

MULTIBAND HF BEAM ANTENNAS

A-3S	20/15/10m, 3el, 14'bm, 8db, stainless hdwr	$549.99
A-743	40m or 30m add-on kit; A-3/A-3S	199.99
A-4S	20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre	649.99
A-744	40m or 30m add-on kit; A-4/A-4S	199.99
A-3WS	17 & 12m, 3 el, 14' boom, 8 db	429.99
A-103	30m add-on kit for A-3WS	199.99
ASL-2010	13.5-32MHz 8el 18' bm 6.4db LP	899.99
MA-5B	20/17/15/12/10m 7.3' boom mini beam	399.99

LIGHTNING ARRESTORS

LAC-4	200w SO-239 gas tube arrestor	$ 64.99
LAC-4H	2kw SO-239 gas tube arrestor	70.99
LAC-4N	200w type N gas tube arrestor	79.99
LAC-4NH	2kw type N gas tube arrestor	84.99
LC-2	Extra 200w cartridge for LAC-4/4N	19.99
LC-2KW	Extra 2kw cartridge for LAC-4H/4NH	22.99
5VB	Vinyl connector boots ....pack of 5	15.99

DCI (DCI)

145-2H	2m 144-146MHz 200w bandpass filter	$169.99
146-4H	2m 144-148MHz 200w bandpass filter	169.99
223.5-3H	222-225MHz 200w bandpass filter	169.99
	2m/220 models w/N connectors add $10 special order	
435-10C	430-440MHz 200w N bandpass filt	189.99
445-10C	440-450MHz 200w N bandpass filt	189.99
146/444-DB	144-148/438-450 200w bp filter	239.99

DAIWA (DAI)

CN-101	1.8-150 15/150/1.5kw SWR/pwr meter/light	$ 99.99
CN-103M	140-525 20/200w SWR/power meter	99.99
CN-103N	140-525 20/200w N SWR/pwr meter	109.99
CN-801HP	1.8-200 20/200/2kw SWR/PEP pwr	159.99
CN-801SII	900-2.5GHz 200mw/2/20w N SWR/pwr	269.99
CN-801V	140-525 20/200w SWR/power meter	154.99
CS-201	2-position 600MHz coax switch	32.99

Daiwa - continued AES Price

CS-201GII	2-position 2GHz N coax switch	48.99
SS-330W	Variable 30A switch ps/fan/meters	169.99
SS-505	Variable 50A switch ps/fan/meter/3-outputs	399.99

DAVIS (DAV)

6152	Wireless Vantage Pro2 weather station	$539.99
7400	Perception II indoor weather unit .....Δ	99.99
7425	Wizard III weather station	179.99
7440	Monitor II weather station .....D	249.99
7852	Rain Collector II, 0.01"	69.99
7866	Weatherlink Mac interface/software ..D	29.99
7870	Modem adapter for 7862/7866 ...D	.19
7867	Weatherlink Mac to Win conv kit ....D	.19
7868	Weatherlink Win to Mac conv kit ....D	.19
7873	Cig lighter power cord .....D	4.99
7876-040	4-conductor 40' extension cbl Δ	6.99
7878-040	6-conductor 40' extension cbl .D	6.99
7881	8-conductor 50' junction box cable Δ	6.99
7882	8-conductor 100' junction box cbl Δ	19.99
7890	Mast mount for anemometer .....D	2.99
0131	Weather forecasting quick reference card	9.99
0276	WindScribe electronic wind/temp indicator	99.99
0281	Wind Wizard handheld wind indicator	49.99

DIAMOND (DIA)

SWR/POWER METERS

SX-20C	HF/6m/2m 30/300w meter	$ 89.99
SX-40C	144-470 (220 w/correction) 15/150w	79.99
SX-100	1.6-60 MHz 30/300/3kw PEP meter	134.99
SX-200	1.8-200 MHz 5/20/200w PEP meter	94.99
SX-400	140-525 MHz 5/20/200w PEP meter	114.99
SX-600	Dual band 1.8-160 /140-525 200w PEP mtr	169.99
SX-1000	1.8-160/430-1300MHz 200w PEP meter	214.99

HT & HANDHELD SCANNER ANTENNAS

MAY-1000	2el 120-500MHz handheld beam D	$ 99.99
RH-3	2m/440 1.75" BNC mini HT duck	26.99
RH-77CA	2m/440 15" BNC rubber gain ant	24.99
RH-205	2m ⅝ wave 47.5" BNC telescopic ant	24.99
RH-519	2m/440 8" BNC flexible whip	24.99
RH-707	2m/440 8¼" BNC tiltable whip	33.99
RH-789	93-1100MHz adjustable freq BNC ant	34.99
RH-951S	2m/440/1.2GHz 14" BNC slim duck	44.99
RHF-40	2m/440 15" BNC flexible rubber gain ant	29.99
SRH-77CA	2m/440 15" SMA rubber gain ant	24.99
SRH-320A	2m/220/440 13.75" SMA flex whip	49.99
SRH-519	2m/440 8" SMA flexible whip	27.99
SRH-789	93-1100MHz adjustable freq SMA ant	34.99
SRH-805	2m/440/1.2GHz 1.75" SMA ant	28.99
SRH-815	2m/440/1.2GHz 6" SMA flex whip	31.99
SRH-940	6m/2m/440 18" SMA flexible whip	34.99
SRH-999	6m/2m/440/1.2GHz 20" SMA flex whip	59.99
SRHF-40	2m/440 15" SMA flexible rubber gain ant	29.99

MONO-BAND MOBILE ANTENNAS

HF-6FX	6m 2.15db 44" mobile antenna	$ 69.99
HF-50CX	6m 3.5db 71" mobile antenna	99.99
M-285	2m 3.4db 52.4" mobile antenna	31.99
M-285SNMO	2m 3.4db 52.4" NMO mobile ant	31.99
M-685	6m 2.15db 52.4" mobile antenna	31.99
M-685SNMO	6m 2.15db 52.4" NMO mobile ant	31.99
MG-200	2.4GHz 7db 23.6" N mobile ant ....Δ	74.99
NR-22L	2m 6.5db 96.8" mobile antenna	69.99
NR-124NMO	1.2GHz 8.4db 25" NMO antenna	64.99
NR-140BNMO	Black 220 4db 37" NMO ant	53.99
SG-2000HD	2m 5.2db 62.6" 250w mob ant	89.99

DUAL-BAND MOBILE ANTENNAS

CR-270A	2m/440 2.15/3.4db 17.2" mobile ant	$ 42.99
MR-77	2m/440 2.15/3.4db 20" magnetic ant	39.99
MR-77SMA	2m/440 2.15/3.4db 20" mag w/SMA	44.99
NR-72BNMO	Black 2m/440 2.15db 14" NMO	44.99
NR-73BNMO	Blk 2m/440 2.15/5.5db 34" NMO	57.99
NR-770HA	2m/440 3/5.5db 40" mobile ant	56.99

Diamond - continued AES Price

NR-770HB	Black 2m/440 3/5.5db 40" mobile	59.99
NR-770HNMO	2m/440 3/5.5db 40" NMO mobile	56.99
NR-770HBNMO	Blk 2m/440 3/5.5db 40" NMO	59.99
NR-770HRKS	2m/440 3/5.5db 40" adhesive mt	109.99
NR-7900A	2m/440 3.7/6.4db 57" hi pwr mob ant	84.99
SG-M510	2m/440 2.15/5.5db 37" mob ant D	49.99
SG-7000A	2m/440 2.15/3.8db 19" mobile	69.99
SG-7500A	2m/440 3.5/6db 41" mobile ant	77.99
SG-7500NMO	2m/440 3.5/6db 41" NMO ant	79.99
SG-7900A	2m/440 5/7.6db 62" mobile ant	109.99
SG-7900ANMO	2m/440 5/7.6db 62" NMO ant	114.99
K-400CNMO	Hacth/tnk mt/coax; SG7900ANMO	69.99

TRI-BAND MOBILE ANTENNAS

CR-320A	2m/220/440 2.15/3.8/5.5db 36"	$ 89.99
CR-320BNMO	Black 2m/220/440 36" NMO ant	89.99
CR-627B	6m/2m/440 2.15/4.5/7.2db 60" ant	99.99
CR-627BNMO	6m/2m/440 2.15/4.5/7.2db 60"	99.99
HV-7A	10/6/2m/440 54" UHF mount mobile ant	109.99
HVC-7	40m loading coil for HV-7A/MV-3A	44.99
HVC-14	20m loading coil for HV-7A/MV-3A	37.99
HVC-18	17m loading coil for HV-7A/MV-3A	37.99
HVC-21	15m loading coil for HV-7A/MV-3A	37.99
NR-2000NA	2m/440/1.2 3.15/6.3/9.7db 39" N mob	89.99
SG-M911	6m/2m/440 2.15/3/5.8db 41" mob D	59.99

QUAD-BAND MOBILE ANTENNAS

CR-8900A	10m/6m/2m/440 0/0/2.15/5.5db 50"	$ 99.99
D-220	2m/440/900/1.2G 35.5" mobile discone	109.99

ADHESIVE BACKED MOBILE MOUNT

HRKS	SO239 mt/13' coax/SMA/PL259 adapter	$ 69.99

MAGNET MOUNTS

DPK-4NM-N	Hvy dty mag mt, cbl, N, 45" max	$ 54.99
K-702M	Hvy duty mag mt, 6⅞" dia, 50" max	49.99
SPM-35	Hvy duty mag mt, cable, 45" max	39.99
SPM-NMO	Hvy dty NMO mag mt, cbl, 45" max	49.99

TRUNK LIP MOUNTING KITS

K-400	Hatch/trunk mt; NR/SG antennas	$ 39.99
K-400C	Hatch/trunk mt w/coax; UHF mount	73.99
K-400CNMO	Hatch/trunk mt w/coax; NMO mt	73.99
K-400S	Hatch/trunk mt w/coax; UHF mt/SMA	79.99
K-400SNMO	Hatch/trunk mt w/coax; NMO/SMA	79.99
K-400-3/8C	Trunk mount w/6.5' cable; ⅜-24	73.99
K-412C	Light duty hatch/tnk mt w/coax; UHF mt	64.99
K-412CNMO	Light duty hatch/tnk mt w/coax; NMO	64.99
K-412S	Light duty hatch/tnk mt w/coax; UHF/SMA	69.99
K-412SNMO	Lt duty hatch/tnk mt/coax; NMO/SMA	69.99
C-110	10' extension cable for K-412 mts	19.99
K-600M	Tilt angle SO-239 trunk mt w/cable	57.99
K-600S	Tilt angle SO-239 tnk mt w/cable/SMA	62.99
K-604M	Tilt angle trunk mt w/flexible cable D	19.99
K-9000LRM	Motorized luggage rack mount	109.99
K-9000LRMO	Motor lug rack mt; o/s hardware	109.99
K-9000TM	Motorized trunk/hatchback mt	109.99

MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S	Lug rack SO-239 mt; new type SUV/SMA	$ 69.99
K-515SNMO	Lug rack NMO mt; new type SUV/SMA	69.99
K-540	Mirror/luggage rack mt; under 45"	35.99
K-540KM	Mirror/luggage rack mt w/coax	59.99
K-550*	Luggage mt; new mini vans (use GLP)	44.99
K-550KM*	Luggage mt w/SO-239 base/coax	69.99

*K-550 series not recommended for Yae ATAS-100/120

MOUNTING GROUP HARDWARE

BNCJ-SMAP	Low prof blk BNC-F to SMA-M adapt	$ 9.99
C-101	SO-239 mt, 6.5' RG-316 low-loss coax	37.99
C-101-3/8C	Extra cable assembly; K400-3/8C	34.99
C-101-3/8C-KIT	Upgrades any K400 to K400-3/8C	44.99
C-101NMO	NMO mt, 6.5' RG-316 low-loss coax	37.99
C-104SMA	4' RG-58 ext cbl; SMA male & SO-239	16.99
C-105SMA	5' RG-58 ext cable; C-101/SMA male	16.99
C-110	10' ext cable; C-101/K-601/K-400-3/8C	19.99
C-110BNC	10' extension cable to BNC male	29.99

Diamond - continued

	AES Price
C-110SMA 10' RG-58 ext cable; C-101/SMA male	29.99
C-211 SO-239 mt, 6.5' coax, 10' coax entend	49.99
C-213 SO-239 mt, 13.5' RG-316 low-loss coax	44.99
C-213NMO NMO mt, 13.5' RG-316 low-loss coax	44.99
CRM Stainless steel right angle bracket w/U-bolts	16.99
NMO/UHF-B Black NMO to UHF adapter	14.99

MONO-BAND BASE STATION ANTENNAS

A-144S5 2m 5 el 37.5" boom 9db beam	$ 59.99
KB-144 Side mounting bracket/hardware	24.99
A-430S10 430 10 el 43" boom 13db beam	69.99
KB-430 Side mounting bracket/hardware	22.99
A-430S15 430 15 el 89" boom 14.8db beam	89.99
A-502HB 6m 2 el 2.6' boom 6.3db beam	99.99
BC-200 430-490MHz tunable 6.5db 5.6' base	99.99
CP-22E 2m 6.5db 9' base antenna	54.99
DP-GH62 6m 6db 21' base antenna	149.99
F-22A 2m 6.7db 10.5' base antenna	99.99
F-23A 2m 7.8db 15' base antenna D	129.99
F-23H 2m 7.8db 15' base antenna	147.99
F-718A 440 11.5db 15' type N base antenna	199.99
F-1230All 1.2GHz 13.1db 12' N base ant	179.99
G-200 2.4GHz 11db 6' N base antenna Δ	149.99
2400-Y12 2.4GHz 12db 8el 15"bm 25w N beam Δ	89.99

DUAL-BAND BASE STATION ANTENNAS

X-30A 2m/440 3/5.5db 4.5' base antenna	$ 69.99
X-50A 2m/440 4.5/7.2db 5.6' base antenna	99.99
X-50NA 2m/440 4.5/7.2db 5.6' base N ant	104.99
X-200A 2m/440 6/8db 8.3' base antenna	124.99
X-300A 2m/440 6.5/9db 10' base antenna	134.99
X-300NA 2m/440 6.5/9db 10' base N ant	134.99
X-510HDM 2m/440 8.3/11.7db 17.2' hi pwr ant	219.99
X-500HNA Hvy duty 2m/440 8.3/11.7db 17.8' N ant	289.99
X-510NA 2m/440 8.3/11.7db 17.2' type N ant	199.99
X-510NJ 143.5-146.5/428-442 8.3/11.7db 17.2' N	199.99
X-700HNA 2m/440 9.3/13db 24' type N ant	389.99

TRI-BAND BASE STATION ANTENNAS

D-130J 50-1300 MHz 200w discone antenna	$ 99.99
D-130NJ 50-1300 MHz 200w N discone ant	99.99
V-2000A 52-54MHz/2m/440 2.1/6.2/8.4db 8.3'	164.99
X-3200A 2m/220/440 6/7.8/8db 10' base	169.99
X-6000A 2m/440/1.2 6.5/9/10db 10.5' N	199.99
BB-7V 2-30MHz 22' no radial vertical (use tuner)	399.99
CP-725H 40/15/10/6m 11.67' trap vert/radials	359.99

DUPLEXERS & TRIPLEXERS

MX-37 440/1200MHz N/N duplexer w/cable	$ 59.99
MX-62M HF-6m &2m/440, 12" cables dplxr	74.99
MX-72A HF-2m/440 dplxr/440 N female, 12" cbls	54.99
MX-72D HF-2m/440 400/150/100w duplexer	48.99
MX-72H HF-2m/440 duplexer w/12" cables	54.99
MX-72N HF-2m/440 dplxr, 440 type N male, 12" cbls	54.99
MX-324 2m/220/440 triplexer	89.99
MX-610 HF/6m-UHF duplexer	69.99
MX-2000 HF-6m/2m/440 400/400/250w triplexer	89.99
MX-3000 HF-2m/440/1.2 400/200/100w triplexer	79.99
MX-3000N HF-2m/440/1.2 400/200/100w N triplexer	85.99

ACCESSORIES

CA-23RP 2500MHz 200w N-F/N-M lightning protect	$ 41.99
CA-23RS 2500MHz 200w N lightning protector	39.99
CA-23RW 2500MHz 200w N waterproof protector	44.99
CA-35R/RS 1000MHz 400w lightning protector	29.99
CA-35RPW 1000MHz 400w waterproof protector	39.99
CX-210A 1.5kw DC-1GHz 2-pos coax switch	44.99
CX-210N 1.5kw DC-3GHz 2-pos N coax switch	74.99
CX-310A HD 3-pos DC-800MHz coax switch	84.99
DL-30A 15/100w peak 0-500MHz dummy load	39.99
DL-30N 15/100w peak 0-500MHz N dummy load	39.99
GZV-4000 Variable 40A switching ps/meter/spkr	179.99
PC-3 10' DC cable w/T-connector for mob rig	11.99

DYNAMITE (DYN)

1000 Dyna-Sport 1500mah 6-cell flat nicad Δ	$ 4.99

Dynamite - continued

	AES Price
1145 Dyna-Fun 2000mah 6-cell nicad Δ	6.99
4010 Mega 1 AC/DC quick charger Δ	4.99
4046 Vision Peak Plus AC/DC peak charger Δ	29.99

ECG (ECG)

U-105 Light duty antenna rotor/3-wire	$ 69.99
U-106 Light duty ant rotor/presets/IR rem/3-wire	89.99
TB-105 Thrust bearing for U-105/U-106	18.99

ESP (ESP)

ESP-1 Microphone audio processor D	$199.99

EASY-UP (UPS OK) (EAS)

EZ 5-16 5' 16 ga steel mast pick-up only	$ 12.99
EZ 29-24S Stainless double strap chimney mt	22.99
EZ 30-24 Dlx wall mt w/extra 3rd leg support	29.99
EZ 31 Heavy duty adjustable eave mount	29.99
EZ 48-3ABX 3' boxed tripod w/pitch pad kit	39.99
EZ 48-5ABX 5' boxed tripod w/pitch pad kit	59.99

ELK Antennas (ELK)

2M/440-L5 2m/440 5el quick assembly LP beam	$ 98.99
220-L6 220 6el quick assembly LP beam	89.99
440-L8 440 8el quick assembly LP beam	89.99
Elk Bag Canvas carrying bag for Elk antenna	24.99

EXCALIBUR (EXC)

908 Talking electronic chess computer Δ	$ 59.99
H-423 Small Forever Flashlight (clear case) Δ	9.99

GAP VERTICALS (GAP)

DX-VIII Challenger 75*/40/20/15/12/10/6/2m 31.5'	$339.99
*80m CW w/capacitor exchange from GAP	
Challenger Counterpoise	39.99
(SYN) **100'** 3/32" black double braided rope	9.99
DX-VI Eagle 40/20/17/15/12/10m 21' rigid	369.99
DX-IV Voyager 160/80/40/20m 45'; use 350' guy	449.99
Voyager Counterpoise	75.99
(SYN) **350'** 3/16" black double braided rope	49.99
Titan DX 75*/40/30/20/17/15/12/10m, 25'	399.99
*80m CW w/capacitor exchange from GAP	
100' Guy Kit with clamp	17.99
200' Guy Kit with clamp	26.99
Ground Mount Quick tilt mt for vertical ant	89.99
Ladder Mount Quick tilt mt; campers/RVs	89.99
Hear It DSP noise eliminating speaker	169.99
In Line Module Hear It DSP in line noise elim	219.99

GRE (GRE)

PSR-100 Standard heldheld scanner	$ 99.99
PSR-300 Triple trunking handheld scanner	199.99
PSR-500 Digital triple trunking handheld scanner	499.99
PSR-200 Standard mobile/desktop scanner	99.99
PSR-400 Triple trunking mobile/desktop scanner	199.99
PSR-600 Digital triple trunking mob/desk scanner	499.99

GARMIN (GAR)

GPS-12XL GPS receiver D	$129.99
GPS-72 Handheld track-plotter GPS Δ	119.99
GA-27C Low prof rem ant/cbl; GPS-12CX/XL Δ	79.99
010-10048-00 Mounting bkt; 12CX/XL Δ	4.99
010-10082-00 Power/data cable Δ	19.99
010-10085-00 Cig lighter adapter cable Δ	14.99
010-10117-01 Carying case D	.69
010-10117-02 Carying case Δ	6.99
010-10141-00 PC interface cable Δ	24.99
010-10165-00 PC cable w/cig adapter Δ	29.99
GPS-60 GPS w/1MB internal memory Δ	149.99
GPS-MAP60 GPS w/24MB internal memory Δ	199.99
010-10117-02 Carying case Δ	6.99
010-10199-03 Carrying case; Street Pilot D	.99
010-10227-00 Blank 8MB mem cartridge D	4.99
010-10468-00 MapSource MetroGuide CD D	49.99

Garmin - continued

	AES Price
StreetPilot 2610 Deluxe GPS D	499.99
GA-27C Low profile remote ant/cable/MCX Δ	79.99
eTREX 12 ch mini GPS receiver D	89.99
010-10203-00 Cig cbl; eMAP & eTREX Δ	19.99
010-10205-00 Data cable; eMAP/eTREX Δ	12.99
010-10206-00 PC interface cbl; eMAP/eTREX Δ	19.99
cfQue-1620 GPS module for Pocket PC's D	129.99
Foretrex 101 Wrist GPS Δ	119.99
Forerunner 201 Wrist GPS/personal trainer Δ	139.99
GPS-18PC Dlx GPS sensor; laptop/serial/mag/soft Δ	119.99
GPS-18USB Dlx GPS sensor; laptop/USB/mag/soft Δ	119.99
iQue-3600 Handheld PDA w/integrated GPS D	349.99
GA-27C Low prof remote ant/cbl; iQue-3600 Δ	79.99
Rino-120 GPS/FRS/GMRS w/8mb mem/basemap Δ	189.99
010-10117-02 Carying case; Rino-120 Δ	6.99

GEAR KEEPER (GEA)

RT2-4012 Hvy duty Mic Keeper w/snap clip Δ	$ 14.99
RT3-4653 Locking HT Gear Keeper/swivel belt clip Δ	14.99

GLEN MARTIN (GME)

TOWERS

M-13A 13" wide alum 10' tower section T	$268.99
CHB-13 Footing assembly for M-13	129.99
CM-1300 Center mount for M-13	39.99
FB-13 Fixed base for M-13	134.99
HB-13 Hinge base for M-13	198.99
H-5 Aluminum Hazer system for M-13	447.99
M-18A 18" wide alum 10' tower section T	314.99
CHB-18 Footing assembly for M-18	142.99
FB-18 Fixed base for M-18	173.99
HB-18 Hinge base for M-18	299.99
H-6 Aluminum Hazer system for M-18	487.99

TOWER PACKAGES

M-1330A 30' alum tower package w/Hazer T	1864.99
M-1340A 40' alum tower package w/Hazer T	2106.99
M-1350A 50' alum tower package w/Hazer T	2349.99
M-1840A 40' alum tower package w/Hazer T	2415.99
M-1850A 50' alum tower package w/Hazer T	2699.99
KB-1000 57" side arm; M-13 series	94.99
KB-1300 57" side arm; M-18 series	97.99
ML-1800 Messenger line kit for GME towers	83.99

ROOF-TOP TOWERS

RT-424 4.5' roof-top tower, anodized aluminum	$189.99
RT-832 8' roof-top tower, anodized aluminum	279.99
RT-936 9' roof-top tower, anodized aluminum	459.99
RT-1832 17.5' roof-top tower, anodized aluminum	614.99
RT-2632 26' roof-top tower, anodized aluminum	999.99
EL-3744 Concrete L-bolts, set of 8	17.99
LB-3755 Lag bolts, set of 8 (3/8 x 5")	11.99
MC-10 Mast clamp; aluminum, 2 required	28.99
RA-6024 24" side arm for roof towers	48.99
RA-6048 48" side arm for roof towers	64.99
RT-5505 Rubber mat, 18" x 48"	32.99
RT-8900 Non-penetrating roof mount base	524.99
TB-25 Premium thrust bearing	64.99

HAZERS FOR ROHN TOWERS

H-2 Heavy duty aluminum Hazer system	$416.99
H-3 Standard duty aluminum Hazer system	316.99
H-4 Heavy duty galv steel Hazer system	399.99
BW-8001 Brake winch for H-2/3/4	93.99
HR-2040 Roller bearing set for Hazers	72.99
HR-6010 T²X plates for H-2/3/4/5	30.99
HS-1301 36" side arm for Hazers	74.99
ML-2500 Messenger line kit for Rohn towers	89.99

LIGHTNING PROTECTION

LR-8400 Premium lightning rod kit	$114.99
GR-4400 Ground rod wire clamp	8.99
GR-5080 8' x 5/8" ground rod	23.99
LR-8418 Lightning rod point, 1/2" x 18"	45.99
LR-8451 Clamp for holding rod to 1 5/16" mast	28.99

Glen Martin - continued

	AES Price
LR-8452 Clamp for holding rod to 2" mast	29.99
TL-0470 Terminal lug	2.99
MASTS	
M-1040 10' x 2" OD heavy duty galv steel mast T	$ 92.99
M-1049 9' x 2" OD heavy duty galv steel mast	87.99
MA-1040 10' x 1.92" OD medium duty alum mast T	103.99
MA-1049 9' x 1.92" OD medium duty alum mast	98.99
MA-1050 5' x 2" OD medium duty alum mast	67.99
MA-2010 10' x 2.375" OD heavy duty alum mast T	120.99
MA-2069 9' x 2.375" OD heavy duty alum mast	109.99
MA-5050 5' x 1.31" OD light duty alum mast	45.99
MP-1409 9' heavy duty fiberglass mast	142.99
TOWER CLIMBING EQUIPMENT	
FP-56222 MB/LC/2-D/B-C/S-L harness	$ 85.99
FP-56224 MB/LC/2-D/B-C/L-XL harness	85.99
FP-56422 MB/LC/4-D/B-H-C/S-L harness	99.99
FP-56424 MB/LC/4-D/B-H-C/L-XL harness	99.99
FP-66611 TB/LC/6-D/B-H-C-SD/S harness	246.99
FP-66612 TB/LC/6-D/B-H-C-SD/M harness	246.99
FP-66613 TB/LC/6-D/B-H-C-SD/L harness	246.99
FP-66614 TB/LC/6-D/B-H-C-SD/XL harness	246.99
FP-75421 TB/LC/4-D/B-H-C/S harness	173.99
FP-75422 TB/LC/4-D/B-H-C/M harness	173.99
FP-75423 TB/LC/4-D/B-H-C/L harness	173.99
FP-75424 TB/LC/4-D/B-H-C/XL harness	173.99
FP-26004 1" x 4' web lanyard	26.99
FP-26006 1" x 6' web lanyard	26.99
FP-29002 1" x 2' Centurion lanyard	34.99
FP-29003 1" x 3' Centurion lanyard	35.99
FP-29004 1" x 4' Centurion lanyard	36.99
FP-29006 1" x 6' Centurion lanyard	36.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. You can obtain shipping charges from any AES salesperson by phone or email: There is a $10 surcharge on all Glen Martin orders under $120. There is also a $75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

GROTHE (GRO)

VS-2 Emergency vehicle siren	$ 89.99
VS-2LS/A Window mt siren/amber halogen spec ord	299.99
VS-2LS/B Window mt siren/blue halogen spec ord	299.99
VS-2LS/R Window mt siren/red halogen spec ord	299.99
VS-3 Volunteer vehicle PA/horn w/spkr	129.99
VS-4 P/A emergency vehicle siren w/spkr	139.99

GRUNDIG/ETON (GRU)

E-1 Portable AM/FM/SW/XM* ready rcvr/ps	$499.99
*Subscription,tuner & ant required for XM satellite	
(AUD) CNP-1000 Integrated XM tuner/ant D	39.99
(AUD) CNP-2000 XM tuner cartridge Δ	29.99
(AUD) CNP-2000H XM home dock/antenna Δ	29.99
E-100 Portable AM/FM/SW receiver D	99.99
FR-100 AM/FM/clock/emergency light D	9.99
FR-250 AM/FM/SW/flashlight/crank/cell cgr	49.99
FR-300 AM/FM/WX/TV sound/flashlight/cell cgr Δ	39.99
FR-400 AM/FM/WX/TV sound/flashlight/cell cgr Δ	49.99
G-5 Portable AM/FM/SW receiver w/ps	149.99
G-6 Portable AM/FM/SW/aircraft receiver w/ps	99.99
G-1100 Pocket AM/FM/SW receiver	49.99
G-2000A Porsche design AM/FM/SW Rcvr D	49.99
GM-300PE Gray mini AM/FM/SW receiver	29.99
GS-350DL Black portable AM/FM/SW Rcvr w/ps	99.99

HAL (HAL)

RTTY-1 RTTY tuning indicator Δ	$ 69.99

HARGER (HRG)

	AES Price
GBIS18114AE ⅛" copper entrance ground bar kit	$ 39.99
GBIS18148AE ⅛" copper station ground bar kit	83.99
GEL3AE Package of 5 HD grounding lugs	26.99
GP1868.78AE ⅛" copper single pt gnd panel kit	76.99
GBX976AE NEMA-4x weatherproof enclosure	127.99

HEIL (HEI)

BM-5-4 Boom mic/single headset (HC-4) D	$ 59.99
BM-5-iC Boom mic/sgl headset/adapter; Icom D	74.99
BM-10-4 Boom mic/headset (HC-4)	110.99
BM-10-5 Boom mic/headset (HC-5)	110.99
BM-10-iC Boom mic/headset/adapter; Icom	130.99
PRO-SET-4 Deluxe boom mic/headset (HC-4)	140.99
PRO-SET-5 Deluxe boom mic/headset (HC-5)	140.99
PRO-SET-iC Dlx boom mic/headset/adapter; Icom	150.99
PRO-SET-PLUS Dlx boom mic/headset (HC4&5)	215.99
PRO-SET-PLUS-iC Dlx bm mic/hdset (HC4&5); Ico	235.99
PSQP-4 Pro-Set Quiet Phone 4 boom mic/headph D	230.99
PSQP-5 Pro-Set Quiet Phone 5 boom mic/headph D	230.99
PSQP-iC Pro-Set Quiet Phone;Icom bm mic/headph D	250.99
AD-1-I Pro-Set 8-pin adapter cord for Icom	20.99
AD-1-IC Pro-Set 8-pin adapter cord; Icom	20.99
AD-1-ICM ProSet modular adapter cord; Ico	20.99
AD-1-IM Pro-Set modular adapter cord; Ico	20.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood	20.99
AD-1-K-M Pro-Set modular adapt cord; Ken	20.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec	20.99
AD-1-Y Pro-Set 8-pin adapter cord; Yaesu	20.99
AD-1-Y-M Pro-Set modular adapt cord; Yae	20.99
HTSS Single side Traveler headset	75.99
HTDS Dual side Traveler headset	95.99
HSTA-IC8 Traveler adapter for Icom 8-pin	23.99
HSTA-IM Traveler adapter; Icom modular	23.99
HSTA-K8 Traveler adapter for Kenwood 8-pin	23.99
HSTA-KM Traveler adapter; Kenwood modular	23.99
HSTA-YM Traveler adapter for Yaesu modular	23.99
HTA-IHT Traveler adapter for Icom HT	23.99
HTA-KHT Traveler adapter for Kenwood HT	23.99
HTA-VX Traveler adapter; Yaesu VX HT (not VX7)	23.99
GM-4 Goldline dual element studio mic w/HC-4	145.99
GM-5 Goldline dual element studio mic w/HC-5	145.99
GM-V Goldline vintage studio mic/matching xfmr Δ	109.99
HCL-4 Classic 1930's desk mic/studio el & HC-4 Δ	199.99
HCL-5 Classic 1930's desk mic/studio el & HC-5	245.99
HM-10-Dual Mic w/HC-4 & HC-5 elements	128.99
ICM Pre-PRO Icom electret mic w/cable	105.99
CC-1-C 3/16" plug cable for Collins/Drake	41.99
CC-1-I 8-pin cable for Icom	35.99
CC-1-I-M Modular cable for Icom	35.99
CC-1-K 8-pin cable for Kenwood	35.99
CC-1-K-M Modular cable for Kenwood	35.99
CC-1-T 4-pin cable for Ten-Tec	35.99
CC-1-Y 8-pin cable for Yaesu	35.99
CC-1-Y-M Modular cable for Yaesu	35.99
PL-2T Topless proline boom	109.99
DT-1 Desk top flush mount	31.99
FL-2 Flange mount for PL-2T	25.99
RS-1 Riser 12" flange mount for PL-2T	25.99
SB-2 Small adjustable mic boom	55.99
HM-4 Handi-Mic hand microphone w/HC-4	85.99
HM-5 Handi-Mic hand microphone w/HC-5	85.99
HM-iC Handi-Mic hand mic/electret element; Ico	85.99
HM-PRO Handi-Mic hand mic/broadcast element	85.99
CH-1-I8 8-pin coiled cable for Icom	23.99
CH-1-I-M Modular coiled cable for Icom	23.99
CH-1-K8 8-pin coiled cable for Kenwood	23.99
CH-1-K-M Modular coiled cable for Kenwood	23.99
CH-1-Y-M Modular coiled cable for Yaesu	23.99
PR-20 Cardioid dynamic studio microphone	150.99
PR-40 Broadcast & recording studio microphone	325.99

Heil - continued

	AES Price
CC-1-XLR-I 3-pin XLR to 8-pin Icom cable	35.99
WSPR-40 Windscreen for PR-40	17.99
PR-781 Dynamic cardioid studio mic	179.99
CC-1-XLR-I 3-pin XLR to 8-pin Icom cable	35.99
CC-1-XLR-K 3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y 3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40 Windscreen	17.99
HQP Quiet Phone Noise cancelling headphones	99.99
AD-100 Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	20.99
Boom Clip for BM-series	5.99
CB-1 Classic base D	60.99
CB-1-PTT Classic base w/soft PTT switch	70.99
Ear Pads for Pro-Set series pair	6.99
FS-2 Dual switch foot switch	38.99
Ham Radio Handbook	10.00
HC-4 DX'ers 'dream machine' mic element	45.99
HC-5 Full-range microphone element	45.99
HD-AT 6db headph attenuator, ⅛"m-¼"f adapt	6.99
HS-2 Magnum ergonomic hand switch	29.99
HW-20 20' Heilwire	20.99
SM-1 Shock mount for any microphone boom	72.99
TM-1 Tri-mount microphone adapter	14.99
XT-1 Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

HIGH SIERRA (HIS)

Platinum Pack 3.5-60MHz mobile ant w/6' whip	$545.00
HS-202CL 2" rcvr lay back adapter; univ mtg bkt	130.00
HS-214CL 1¼" rcvr lay back adapt; univ mtg bkt	130.00
i-Box 7000 Box for IC-7000	110.00
Six Shooter Large capacity hat	70.00
Sidekick 3.5-60MHz mobile ant w/3' whip	395.00
Hitchin Post 3/8-24 trailer hitch mount	50.00
i-Box 7000 Box for IC-7000	110.00
Six Shooter Large capacity hat	70.00
Stake Hole Mt SO-239 to 3/8-24 mount	27.00
Sidekick w/i-box/i-tenna 3.5-60 mob/3' whip; Ico	445.00
Hitchin Post 3/8-24 trailer hitch mount	50.00
Six Shooter Large capacity hat	70.00
Stake Hole Mt SO-239 to 3/8-24 mount	27.00
Tripod Deluxe 6' tripod/3/8-24/SO239/8 radials	130.00

HobbyZone (HBZ)

1011 6v 600mah NiMH battery Δ	$ 2.99
2015 3-hr wall charger for 4000 Δ	.69
4025 Stealth target/combat module; 2500/4000 Δ	1.99
6023 Aerial drop module; 2500/4000 Δ	1.99
7809 7.2v 1100mah battery for 7800 Δ	4.99

House of Deals (HOU)

FL-307T 9 LED/3 AAA flashlight/carrying case D	$ 4.99
FL-3232T 32 LED/3 D flashlight	24.99
FL-8211B 11 LED/3 AAA head/bike lamp	9.99
HS-2005A 9 LED/3 AAA flashlight/wrist strap	6.99

HUSTLER (HUS)

RM-80 80m CW 400w PEP resonator	$ 30.99
RM-75 75m phone 400w PEP resonator	30.99
RM-60 60m phone 400w PEP resonator	30.99
RM-40 40m 400w PEP resonator	28.99
RM-30 30m 400w PEP resonator	28.99
RM-20 20m 400w PEP resonator	25.99
RM-17 17m 400w PEP resonator	25.99
RM-15 15m 400w PEP resonator	18.99
RM-12 12m 400w PEP resonator	18.99
RM-11 CB 400w PEP resonator	18.99
RM-10 10m 400w PEP resonator	18.99
RM-80S 80m CW 2kw PEP resonator	57.99
RM-75S 75m phone 2kw PEP resonator	57.99
RM-40S 40m 2kw PEP resonator	41.99
RM-20S 20m 2kw PEP resonator	32.99
RM-15S 15m 2kw PEP resonator	28.99
RM-11S CB 2kw PEP resonator	27.99
RM-10S 10m 2kw PEP resonator	27.99

Hustler - continued

	AES Price
MO-1 54" mast for fender or deck mount	36.99
MO-2 54" mast for bumper mount	36.99
MO-3 54" no break-over mast	27.99
MO-4 22" mast for special applications	22.99
VP-1 Tri-band adapter	7.99
RSS-2 Resonator spring	13.99
QD-2 Stainless quick disconnect	24.99
L-14-144 12' RG-58, PL-259 to lugs	9.99
L-14-240 20' RG-58, PL-259 to lugs	12.99

STAINLESS 2" MOBILE BALL MOUNTS

SSM-1 Ball & spring, cadmium hardware	$ 52.99
SSM-2 Ball, cadmium hardware	32.99
SSM-3 Stainless steel spring	29.99

1-1/2" MOBILE BALL MOUNTS

C-32 Chrome plated ball	$ 18.99
C-30 Chrome plated spring	14.99
C-29 Stainless steel spring	21.99
BM-1 Single strap bumper mt w/C-32	25.99

3/8-24 THREAD MOBILE MOUNTS

HLM Trunk lip mount w/swivel	$ 25.99
HOT Hustloff trunk lip mt w/swivel	26.99
MBM Super magnet mount w/16' coax	22.99
RVM Recreational vehicle mount	23.99
TLM Trunk lip mount	25.99

HF ANTENNAS

4-BTV 40/20/15/10m 21' trap vertical	$149.99
5-BTV 80/40/20/15/10m 25' trap vertical	179.99
30-MTK 30m trap kit for 4-BTV/5-BTV	47.99
6-BTV 80/40/30/20/15/10m 24' trap vert	199.99

VHF/UHF BASE STATION ANTENNAS

G3-144 2m 3db 7.5' vertical antenna	$ 74.99
G6-144B 2m 6db 10' vertical antenna	139.99
G6-270R 2m/440 6db 7.6' base station ant	199.99
G7-144 2m 7db 15' vertical antenna	199.99
G7-220 220 MHz 7db 10' vertical antenna	169.99
G6-440 440 MHz 6db 7' vertical antenna	179.99

VHF/UHF MOBILE ANTENNAS

BBG-144 2m 3.4db NMO coil/whip only	$ 49.99
BBGT-144 2m 3.4db NMO trunk lip mt ant	56.99
BBG-440-5 440 5db NMO coil/whip only	49.99
BBGT-440-5 440 5db NMO trunk lip mt ant	49.99
BBL-144A 2m ¾" hole mt antenna, 3.4db ..D	14.99
CG-144 2m ⅜-24 ant, 7' high, 5.2db	36.99
CGT-144 2m trunk mt ant, 7' high, 5.2db	59.99
CG-220 220 MHz ⅜-24 ant, 5.2db	36.99
CGT-220 220 trunk mt ant, 5.2db	59.99
LMB-144 2m 3.4db black NMO coil/whip only	23.99
LMB-440-5 440 5db black NMO coil/whip only	25.99
LMC-144 2m 3.4db NMO coil/whip only	25.99
LMC-270 2m/440 2.4/4db NMO coil/whip only	34.99
LMC-440-5 440 5db NMO coil/whip only	25.99
LMG-144 2m 3.4db NMO pushpin coil/whip only	27.99
LMG-440-5 440 5db NMO pushpin coil/whip only	24.99
MKR-2 Radial kit for CG/RX/SF-antennas	23.99
MX-2 2m 3.4db black & chrome NMO mag ant	37.99
MX-2B 2m 3.4db all black NMO mag mt ant	42.99
MX-220 220 3.4db blk & chrome NMO mag ant	37.99
MX-270 2m/440 2.4/4db chrome NMO mag mt ant	63.99
MX-440 440 5db blk & chrome NMO mag mt ant	49.99
MX-440B 440 5db all black NMO mag mt ant	49.99
RX-2 2m 3.4db magnetic mount ant	28.99
RX-220 220 3.4db magnetic mt antenna	28.99
RX-440 440 5db magnetic mt antenna	28.99
SF-2 2m ⅜-24 ant, 4' high, 3.4 db	17.99
SF-220 220 MHz ⅜-24 antenna, 3.4 db	17.99
THF 140-500 MHz ¼ wave trunk mount ant	25.99
UGM 140-500 MHz ¼ wave BNC mag mt ant	23.99
UHT-1 140-500 MHz ¼ wave roof mt ant	17.99

CB & MONITOR ANTENNAS

1C-11 White trunk mount CB antenna	$ 14.99

Hustler - continued

	AES Price
1C-11B Black trunk mt CB antenna	14.99
1C-56 102" stainless whip .....pick-up only	19.99
1C-100 White magnetic mount CB antenna	23.99
1C-100B Black magnetic mt CB antenna	23.99
DTG 25" fg double-talk gutter mt CB ant ...Δ	9.99
FG-27S 48" CB whip	12.99
HQ-27 Power Packer ⅜-24 CB whip	19.99
HQ-27M Power Packer trunk mt CB antenna	39.99
HQD Dual fg mirror mount CB antenna	53.99
HQT Single fg mirror mount CB antenna	29.99
RQM Magnetic mount CB antenna	21.99
RTG-27L 25" CB antenna w/rain gutter mt	28.99
RTM 25" magnetic mount CB antenna	18.99
RTS-27L 25" CB antenna w/roof mount	28.99
SCB/BLK 46" black CB whip	37.99
SCB/RED 46" red CB whip	37.99
SCB/WHT 46" white CB whip	37.99
SCB-S/BLK 35" black CB whip	37.99
SCB-S/RED 35" red CB whip	37.99
SCB-S/WHT 35" white CB whip	37.99
DCL-B Discone monitor ant/50' coax/BNC plug	37.99
DCX Discone monitor ant; 40-700 MHz	25.99
MOR-B Roof/deck mt tri-band BNC monitor ant	19.99
MOT-B Trunk lip mt tri-band BNC monitor ant	21.99
MRM-B Magnet mt tri-band BNC monitor ant	19.99

HY-GAIN (HYG)

HF BEAM ANTENNAS

LJ-103BA 3el 7.9db 8' boom 10m beam	$159.99
LJ-105CA 5el 10.8db 24' boom 10m beam	289.99
LJ-153BA 3el 7.9db 12' boom 15m beam	199.99
LJ-204BA 4el 8.2db 26' boom 20 or 17m beam	499.99
TH-3JRS 3el 600w PEP 20/15/10m beam	359.99
TH-3MK4 3el 8db 14' boom 20/15/10m beam	469.99
TH-5MK2 5el 8.3db 19' boom 20/15/10m beam	699.99
TH-7DX 7el 8.77db 24' boom 20/15/10m beam	799.99
BN-86 3-30MHz balun for HF beam	79.99

MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ 40/20/15/10m 18' vertical ant	$169.99
AV-18AVQ II 80/40/20/15/10m vertical ant	229.99
AV-18HT HyTower 80/40/20/15/10m 53' vert T*	949.99

***AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.**

AV-18HT-JR HyTower Jr 40/20/15/10m 39' vert	349.99
AV-620 20/17/15/12/10/6m 22.5' vertical	299.99
AV-640 40/30/20/17/15/12/10/6m 25.5' vert	399.99
DX-88 80/40/30/20/17/15/12/10m 25' vert	369.99

VHF/UHF ANTENNAS

DB-218SAT VHF/UHF Oscar Link system	$529.99
VB-25FM 5el 11.2db 75" boom 2m beam	59.99
VB-64DX 4el 10.4db 12' boom 6m beam	144.99

ANTENNA ROTORS

AR-40 3 sq ft antenna rotor/5-wire	$289.99
CD-45-II 8.5 sq ft antenna rotor/8-wire	389.99
HAM-IV 15 sq ft antenna rotor/8-wire	539.99
HAM-V Digital 15 sq ft antenna rotor/8-wire	899.99
HDR-300A Hvy duty dig 25 sq ft rotor/8-wire	1349.99
T-2X Tailtwister 20 sq ft antenna rotor/8-wire	619.99
T-2XD Tailtwister dig 20 sq ft ant rotor/8-wire	1029.99

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1 Dig rotor control; CD-45/HAM-IV/T-2X	$699.99
MSHD Lwr mast support; HAM-IV/V/T-2X/XD	99.99
MSLD Lower mast support; CD-45-II/AR-40	39.99

Hy-Gain - continued

	AES Price
TSP-1 Tower spacer plate	34.99

See BELDEN for rotor cable

IBS (IBS)

2008 2008 Passport to Worldband Radio	$ 22.95

ICC (ICC)

Nitelogger II Automatic tape recorder activator	$ 69.99

ICOM (ICO)

IC-7800 Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps	10599.99
(BET) **I-Mate** Message accessory	74.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
IC-7700 200w single RX HF/6m Xcvr	6299.99
(BET) **I-Mate** Message accessory	74.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
IC-756PRO III Xcvr/6m/IF-DSP/tuner/keyer	*2699.99
***Price after instant coupon; coupon expires 6/30/08**	
(BET) **I-Mate** Message accessory	74.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only** ....Δ	99.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
OPC-025D Extra DC cable	29.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
IC-746PRO Xcv/Rcv/6m/2m/IF-DSP/tuner/mic	*1499.99
***Price after mail-in rebate; rebate ends 6/30/08**	
***Price after instant coupon; coupon expires 6/30/08**	
PS-125 ps FREE with IC-746PRO! thru 6/30/08	
(BET) **I-Mate** Message accessory	74.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only** ....Δ	99.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
OPC-025D Extra DC cable	29.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
IC-718 HF Xcvr/SW Rcvr/mic w/DSP	*549.99
***Price after mail-in rebate; rebate ends 6/30/08**	
(BET) **706 Tune Control** for IC-718	32.99
(W4R) **OBF-703/718-DIY** CW&SB Collins filts	239.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only** ....Δ	99.99
AT-180 Auto coax antenna tuner; HF+6m	369.99
OPC-598 23' extension cable; AT-180	73.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-718	

Icom - continued — AES Price

MB-5 Mobile mount 59.99
MB-23 Side mount carrying handle 15.99
OPC-025D Extra DC cable 29.99
OPC-599 7+8-pin to 13-pin adapter 60.99
SM-20 Deluxe desk microphone 199.99
SP-5 Mobile speaker 39.99
SP-20 Speaker w/audio filters 239.99
SP-23 Speaker w/audio filters 199.99
UT-102 Voice synthesizer 74.99
UT-106 Plug-in DSP unit 139.99
IC-703 Plus 10w mini HF+6m Xcvr/tuner/DSP *679.99
*Price after mail-in rebate; rebate ends 6/30/08
(W4R) **OBF-703/718-DIY** CW&SB Collins filts 239.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 349.99
AH-2B extra **whip only** .....Δ 99.99
AH-703 40/20/15/10/6m 20w 4.6' antenna 199.99
BC-155A Battery charger for BP-228 ..... 29.99
BP-228 9.6v 2800mah external nicad pack 89.99
CT-17 CI-V level converter 129.99
FL-52A 500 Hz 455 KHz IF CW filter 179.99
FL-53A 250 Hz 455 KHz IF CW filter 179.99
FL-222 1.9 KHz 455 KHz IF SSB filter 199.99
FL-257 3.3 KHz 455 KHz IF SSB filter 199.99
Suggest dealer installation of filters in IC-703 series
HM-154T TTP microphone 75.99
LC-156 Back pack carrying case 99.99
MB-62 Mounting bracket for main unit 25.99
MB-63 Mounting bracket for control panel 18.99
MB-65 Mounting base platform 43.99
MB-72 Carrying handle 14.99
OPC-581 11.5' separation cable 60.99
OPC-587 16' separation cable 79.99
OPC-599 7+8-pin to 13-pin adapter 60.99
OPC-742 13-pin cable 60.99
OPC-1229 Extra DC cable 28.99
OPC-1248 IC-703 to PS-125 cable 14.99
RMK-706 Package; MB-62/MB-63/OPC-581 70.99
SM-20 Deluxe desk microphone 199.99
OPC-589 8-pin to jack adapt; SM-6/8/20 35.99
SP-10 Slim-line external speaker 69.99
UT-102 Voice synthesizer 74.99
IC-706 Mk II-G Mini HF Xcvr/6m/2m/440/DSP *899.99
*Price after mail-in rebate; rebate ends 6/30/08
RMK-706 FREE with IC-706 Mk II-G! thru 6/30/08
(BET) **706 Tune Control** for IC-706 series ... 32.99
(W4R) **Antenna Boss II** interface;mot ant/IC706 169.99
PS-125 25A switching power supply 299.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 349.99
AH-2B extra **whip only** .....Δ 99.99
AT-180 Auto coax antenna tuner; HF+6m .. 369.99
OPC-598 23' extension cable; AT-180 .... 73.99
CR-282 High stability crystal unit; Mk II G . 149.99
Suggest dealer install; CR-282, IC-706 Mk II-G
CT-17 CI-V level converter 129.99
FL-100 500 Hz 9 MHz IF CW filter 119.99
FL-101 250 Hz 9 MHz IF CW filter 119.99
FL-103 2.8 KHz 9 MHz IF SSB filter 109.99
FL-223 1.9 KHz 9 MHz IF SSB filter 99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter 89.99
HM-154T TTP microphone 75.99
LC-156 Back pack carrying case 99.99
MB-62 Mounting bracket for main unit 25.99
MB-63 Mounting bracket for control panel 18.99
MB-65 Mounting base platform 43.99
MB-72 Carrying handle; Mk II-G only 14.99
OPC-025D Extra DC cable 29.99
OPC-581 11.5' separation cable 60.99
OPC-587 16' separation cable 79.99
OPC-599 7+8-pin to 13-pin adapter 60.99
OPC-742 13-pin cable 60.99

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RMK-706 Package; MB-62/MB-63/OPC-581 70.99
SM-20 Deluxe desk microphone 199.99
OPC-589 8-pin to jack adapt; SM-6/8/20 35.99
SP-10 Slim-line external speaker 69.99
UT-102 Voice synthesizer 74.99
IC-7000 Deluxe mini HF/6m/2m/440 Xcvr ... *1299.99
*Price after instant coupon; coupon expires 6/30/08
RMK-7000 FREE with IC-7000! thru 6/30/08
(BET) **7000 Screwdriver Control*** for IC-7000 84.99
*Requires 7000 Tune Control also
(BET) **7000 Tune Control** for IC-7000 ..... 54.99
(W4R) **Antenna Boss II** interface;mot ant/IC7000 169.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 349.99
AH-2B extra **whip only** .....Δ 99.99
AT-180 Auto coax antenna tuner; HF+6m .. 369.99
OPC-598 23' extension cable; AT-180 .... 73.99
CT-17 CI-V level converter 129.99
HM-154T TTP microphone 75.99
LC-156 Back pack carrying case 99.99
MB-62 Mounting bracket for main unit 25.99
MB-65 Mounting base (MB-105 required) . 43.99
MB-105 Remote head bracket 20.99
MB-106 Carry handle 20.99
OPC-599 7+8-pin to 13-pin adapter 60.99
OPC-742 13-pin cable 60.99
OPC-1443 11.5' remote cable 49.99
OPC-1444 16' remote cable 80.99
OPC-1457 Extra DC cable 28.99
RMK-7000 Package; MB-62, MB-105, OPC-1443 95.99
SM-20 Deluxe desk microphone 199.99
OPC-589 8-pin to jack adapt; SM-6/8/20 35.99
SP-10 Slim-line external speaker 69.99
AH-710 1.9-30 MHz 80' folded dipole/98' coax 269.99
PW-1 160-15+6m linear amplifier/ps/tuner 4699.99

RECEIVERS

R-5-06 .15M-1.3G AM/FM hand/batts/cell blkd D *189.99
*Price after mail-in rebate; rebate ends 6/30/08
R-5-Sport-06 .15M-1.3G hand/no batts/cell blkd . 174.99
R-5-Sport-11* HH Rcvr/restricted sales! spec order 174.99
AD-92SMA SMA- BNC adapter 16.99
CP-18A Cig lighter cable 30.99
CS-R5 Win programming software 40.99
OPC-474 Cloning cable (R-5 to R-5) 18.99
OPC-478 PC RS-232C cable 45.99
OPC-478U/UC PC USB cable 60.99
HP-4 Lightweight headphones 29.99
LC-146A Carrying case 24.99
SP-13 Earphone 4.99
R-3-27* Rcvr/TV/restricted sales! special order 489.99
BC-135 Desktop charger w/adapter cup .Δ 69.99
BP-206 3.7v 1650mah lith ion battery 63.99
CP-18A Cig lighter cable 30.99
CS-R3 Win programming software .....Δ 19.99
OPC-474 Cloning cable (R-3 to R-3) 18.99
OPC-478 PC RS-232C cable 45.99
OPC-478U/UC PC USB cable 60.99
HP-4 Lightweight headphones 29.99
LC-151 Carrying case .....Δ 19.99
SP-13 Earphone 4.99
R-20-06 150KHz-3.3GHz handheld Rcvr/cell blkd *484.99
*Price after mail-in rebate; rebate ends 6/30/08
R-20-11* Rcvr/restricted sales! special order 509.99
BC-156-02 Desktop charger 80.99
BP-206 Extra 3.7v 1650mah lith ion batt . 63.99
CP-18A Cig lighter cable 30.99
CS-R20 Cloning software/USB cable; R-20 56.99
CT-17 CI-V level converter 129.99
LC-158 Carrying case 29.99
MB-86 Swivel belt clip 9.99
SP-13 Earphone 4.99

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PCR-1500-25 PC control Receiver/cell blkd . *479.99
*Price after mail-in rebate; rebate ends 6/30/08
FREE Bon CS4.5 with R-2500-05 thru 6/30/08!
PCR-1500-30* PC Rcv/restricted sales! spec order 499.99
AH-7000 25-1000 MHz discone ant/50'coax 169.99
BON CS-4.5 Bonito software 69.99
CP-12L Right angle cig cable w/filter 36.99
OPC-254L Right angle mini DC pwr cable . 14.99
OPC-441 16.4' speaker extension cable 33.99
SP-10 Slim-line external speaker 69.99
UT-106 Plug-in DSP unit 139.99
R-1500-05 Receiver w/remote head/cell blkd *579.99
*Price after mail-in rebate; rebate ends 6/30/08
FREE Bon CS4.5 with R-2500-05 thru 6/30/08!
R-1500-10* Rcvr/restricted sales! special order 599.99
AH-7000 25-1000 MHz discone ant/50'coax 169.99
BON CS-4.5 Bonito software 69.99
CP-12L Right angle cig cable w/filter 36.99
OPC-254L Right angle mini DC pwr cable . 14.99
OPC-441 16.4' speaker extension cable 33.99
SP-10 Slim-line external speaker 69.99
UT-106 Plug-in DSP unit 139.99
PCR-2500-25 Advanced PC ctl Rcvr/cell blkd . *709.99
*Price after mail-in rebate; rebate ends 6/30/08
FREE Bon CS4.5 with R-2500-05 thru 6/30/08!
PCR-2500-30* PC Rcv/restricted sales! spec order 849.99
AH-7000 25-1000 MHz discone ant/50'coax 169.99
BON CS-4.5 Bonito software 69.99
CP-12L Right angle cig cable w/filter 36.99
OPC-254L Right angle mini DC pwr cable . 14.99
OPC-441 16.4' speaker extension cable 33.99
SP-10 Slim-line external speaker 69.99
UT-106 Plug-in DSP unit 139.99
UT-108 DTMF decoder unit 35.99
UT-118 Digital board 199.99
UT-122 P-25 digital board 199.99
R-2500-05 Advanced Rcvr w/rem head/cell blkd . *879.99
*Price after mail-in rebate; rebate ends 6/30/08
FREE Bon CS4.5 with R-2500-05 thru 6/30/08!
R-2500-10* Rcvr/restricted sales! special order 999.99
AH-7000 25-1000 MHz discone ant/50'coax 169.99
BON CS-4.5 Bonito software 69.99
CP-12L Right angle cig cable w/filter 36.99
OPC-254L Right angle mini DC pwr cable . 14.99
OPC-441 16.4' speaker extension cable 33.99
SP-10 Slim-line external speaker 69.99
UT-106 Plug-in DSP unit 139.99
UT-108 DTMF decoder unit 35.99
UT-118 Digital board 199.99
UT-122 P-25 digital board 199.99
BON CS-40 Bonito soft; PCR-1000-02/07 ...D 29.99
CS-R2 DOS programming software; R-2 .....D .29
CS-R10 DOS programming software; R-10 D .49
FA-B01RE Extra BNC duck antenna; R-10 ..D 9.99
FA-B02RE High sensitivity VHF BNC duck ..D 4.99
LC-140 Carrying case for R-10 .....D 2.99
R-75 .03-60 MHz shortwave Rcvr/DSP 599.99
CR-282 High stability crystal unit 149.99
CT-17 CI-V level converter 129.99
FL-52A 500 Hz 455 KHz IF CW filter 179.99
FL-53A 250 Hz 455 KHz IF CW filter 179.99
FL-100 500 Hz 9 MHz IF CW filter 119.99
FL-101 250 Hz 9 MHz IF CW filter 119.99
FL-103 2.8 KHz 9 MHz IF SSB filter 109.99
FL-222 1.9 KHz 455 KHz IF SSB filter 199.99
FL-223 1.9 KHz 9 MHz IF SSB filter 99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter 89.99
FL-257 3.3 KHz 455 KHz IF SSB filter 199.99
MB-5 Mobile mount 59.99
MB-23 Side mount carrying handle 15.99
OPC-869 DC cable 55.99

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RS-R75 PC control software w/RS-232 cable	80.99
OPC-478 PC RS-232C cable	45.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
R-8500* Rcvr/restricted sales! special order	1699.99
AH-7000 25-1000 MHz discone ant/50'coax	169.99
CR-293 High stability xtal unit	289.99
FL-52A 500 Hz CW filter	179.99
MB-12 Mobile mount; R-8500 Δ	39.99
MB-23 Side mount carrying handle	15.99
RS-R8500 PC control software w/RS-232 cbl Δ	49.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
R-9500-02 Deluxe Receiver special order	13500.00
R-9500-06* Rcvr/restricted sales! special order	13500.00
CT-17 CI-V level converter	129.99
SP-20 Speaker w/audio filters	239.99
UT-122 P-25 digital board	199.99

*United States government agencies **ONLY** may purchase unblocked models of PCR-1000/PCR-1500/PCR-2500/R-3/R-5/R-20/R-1500/R-2500/R-8500/R-9500 for official government use only. State and local governments may purchase R-9500 unblocked only also. Mail or FAX purchase order to AES. Exports: inquire.

BC-96 Wireless mic holder; IC-2100H D	6.99
CS-2720 Win/DOS clone software; IC-2720H Δ	29.99
HM-133S Extra TTP mic; IC-2100H Δ	89.99
MB-28H Mobile bkt; 2100H/207H/2800H Δ	9.99
MB-84 Remote controller bracket; IC-2720H Δ	18.99
MB-85 Combination bracket; IC-2720H Δ	25.99
OPC-346 9.8' DC cable; 2100H/207H/2800H Δ	28.99
OPC-1156 11.5' separation cable; IC-2720H Δ	13.99
IC-2200H 65w 2m FM Xcvr w/WX alert	*139.99
***Price after mail-in rebate; rebate ends 6/30/08**	
CS-2200H Windows cloning software	80.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
IC-V8000 75w 2m FM Xcvr w/WX alert/scan	*179.99
***Price after mail-in rebate; rebate ends 6/30/08**	
CS-V8000 Windows cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
V8000-MMB Extra mobile bracket	26.99
IC-208H 55w 2m/50w 440 FM Xcvr/WX alert	*254.99
***Price after mail-in rebate; rebate ends 6/30/08**	
***Price after instant coupon; coupon expires 6/30/08**	
CS-208 Win cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
MB-58 Remote controller bracket	39.99
MB-65 Mounting base platform	43.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99

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OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-601R 23' separation cable	67.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
IC-2820H 50w 2m/50w 440 FM Xcvr	649.99
CS-2820 Win cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
MB-65 Mounting base platform	43.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
OPC-1529R Data communications cable	25.99
SP-10 Slim-line external speaker	69.99
UT-123 DV mode & GPS receiver	299.99
IC-910H 100w 2m/75w 430 FM/SSB Xcvr	1279.99
PS-125 25A switching power supply	299.99
AG-25 2m mast mounted GaSFET preamp	159.99
AG-35 430 MHz mast mounted preamp	169.99
CR-293 High stability xtal unit	289.99
CT-17 CI-V level converter	129.99
FL-132 500 Hz main Rcvr CW filter	119.99
FL-133 500 Hz sub band Rcvr CW filter	119.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
SM-20 Deluxe desk microphone	199.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
UT-106 Plug-in DSP unit (one per band)	139.99
UX-910 10w 1.2GHz module	529.99
ID-1 10w 1.2GHz FM/128k analog/digital Xcvr	*979.99
***Price after mail-in rebate; rebate ends 6/30/08**	
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
ID-800 55w 2m/50w 440 FM analog/dig Xcvr	*559.99
***Price after mail-in rebate; rebate ends 6/30/08**	
***Price after instant coupon; coupon expires 6/30/08**	
CS-D800 Cloning software	45.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-601R 23' separation cable	67.99
OPC-1132 9.8' DC cable	28.99
OPC-1384 RS-232C data cable	35.99
SP-10 Slim-line external speaker	69.99
IC-91A 5w 2m/440 D-Star upgradeable HT	299.99
UT-121 Digital board for D-Star	199.99
IC-91AD 5w 2m/440 D-Star compatible HT	399.99
AD-92SMA SMA- BNC adapter	16.99
BC-139 Desk rapid charger	94.99
BP-216 Battery case for 2 AA	35.99
BP-217 7.4v 1300mah lith ion battery	89.99
CP-19R Cig lighter cable w/filter	44.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-85 Headset w/VOX	89.99
LC-163 Carrying case	36.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-782 Plug adapert cable; HS85/SP13	16.99
RS-91 Rem control software/RS-232 cable	55.99
SP-13 Earphone	4.99

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IC-92AD 5w 2m/440 D-Star compatible HT	579.99
AD-92SMA SMA- BNC adapter	16.99
BC-177 Desk rapid charger	76.99
BP-256 7.4v 1620mah lith ion battery	98.99
BP-257 Battery case for 2 AA	36.99
CP-19R Cig lighter cable w/filter	44.99
HM-75A Remote control microphone	70.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HM-174 Waterproof spkr/mic	119.99
HM-175GPS Waterproof spkr/mic w/GPS	349.99
HS-85 Headset w/VOX	89.99
LC-168 Carryiing case	26.99
OPC-254L Right angle mini DC pwr cable	14.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-1797 Plug adapt cable; 2pin spkr/mic	49.99
RS-92 Rem control software/RS-232 cable	94.99
SP-13 Earphone (needs OPC-1797)	4.99

D-STAR REPEATERS

ID-RP2C Repeater controller	1459.99
ID-RP2C/2D Controller/1.2GHz data rptr spec order	2297.99
ID-RP2C/2V Controller/1.2GHz voice rptr spec order	2969.99
ID-RP2D 1.2GHz data module special order	1112.99
ID-RP2D/V* Complete 1.2G D/V repeater spec order	3999.99
*ID-RP2D/V Includes repeater controller	
ID-RP2L-06* 10GHz backbone (1 of 2) special order	4999.99
ID-RP2L-07* 10GHz backbone (2 of 2) special order	4999.99
*Both 06 & 07 are required to complete a link	
ID-RP2V 1.2GHz voice repeater special order	1559.99
ID-RP2000V 2m voice repeater	1399.99
ID-RP4000V 440MHz voice repeater	1399.99
IC-V8 Sport 5.5w 2m FM HT/alkaline case	99.99
BC-119-N01 Desk charger (adapter required)	65.99
AD-94-11 Adapter cup for BC-119-N01 Δ	9.99
AD-101 Adapter cup; BP-211N/BC-119-N01	18.99
BC-144N/BC144N51 Rapid desk charger	60.99
BP-208N Battery case	18.99
BP-209N 7.2v 1100mah 5.5w battery	40.99
BP-210N 7.2v 1650mah 5.5w battery	50.99
BP-222N 7.2v 600mah 5.5w battery	35.99
CP-17L Right angle cig cable for charger	24.99
CS-V8 Cloning software for IC-V8	35.99
OPC-474 Cloning cable (V8 to V8)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
HM-46L Slim-line spkr/mic, rt angle plug	45.99
HM-54 Hvy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-51 Headset w/VOX	96.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LCF3G Swivel Leather case with swivel	50.99
MB-74N Spring loaded belt clip; orig batts	12.99
MB-86 Swivel belt clip; N-series batteries	9.99
MB-87 Swivel belt clip; original batteries Δ	6.99
MB-103 Spring loaded belt clip; N-series batts	12.99
OPC-515L Right angle DC cord for charger	19.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
IC-V82 7w 2m FM HT/battery/charger	*119.99
***Price after mail-in rebate; rebate ends 6/30/08**	
IC-U82 5w 440 FM HT/battery/charger	*119.99
***Price after mail-in rebate; rebate ends 6/30/08**	
BC-119-N01 Desk charger (adapter required)	65.99
AD-94-11 Adapter cup for BC-119-N01 Δ	9.99
AD-101 Adapter cup; BP-211N/BC-119-N01	18.99
BC-144N/BC144N51 Rapid desk charger	60.99
BP-208N Battery case	18.99
BP-209N 7.2v 1100mah 5.5w battery	40.99
BP-210N 7.2v 1650mah 5.5w battery	50.99

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BP-222N 7.2v 600mah 5.5w battery	35.99
CS-V82 Cloning software for IC-V82/U82	40.99
OPC-474 Cloning cable (HT to HT)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Heavy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
MB-86 Swivel belt clip	9.99
MB-103 Spring loaded belt clip; N-series batts	12.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
IC-V85 7w 2m FM HT/lith ion/charger	199.99
BP-226 Battery case for 5 AA	39.99
BP-227 7.2v 1700mah lith ion battery	84.99
CP-19R Cig lighter cable w/filter	44.99
CS-V85 Cloning software for IC-V85	40.99
OPC-474 Cloning cable (HT to HT)	18.99
OPC-478U/UC PC USB cable	60.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LC-167 Carrying case	38.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
IC-T7H Sport 2w 2m/440 FM HT/alkaline case	169.99
BC-110A/BC-74 Extra wall charger Δ	25.99
BC-119-N11 Nicad/NiMH desk cgr (use adapt) Δ	89.99
BP-170 Battery case	35.99
BP-172 4.8v 950mah battery Δ	69.99
BP-173 9.6v 600mah battery D	119.99
BP-180 7.2v 600mah battery Δ	79.99
CP-12 Cig lighter cable w/filter Δ	36.99
CP-12L Right angle cig cable w/filter	36.99
CSW-HH4 Windows prog soft/cbl; T7H/W32A	50.99
OPC-474 Cloning cable	18.99
OPC-478 PC RS-232C cable	45.99
FA-1443B Extra 2m/440 dual band duck Δ	29.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Heavy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-10 Boom mic/headset D	19.99
HS-10SA VOX unit D	39.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-137 Vinyl case; T7H w/BP173/180 Δ	38.99
NCP-1 Nylon chest pack	39.99
OPC-254L Right angle mini DC pwr cable	14.99
SP-13 Earphone	4.99
AD-51 Batt pack adapt; W32A/rapid cgr Δ	14.99
AD-81 Batt adapter for rapid cgr; IC-T2H Δ	14.99
AD-87 Batt pack adapter; rapid cgr; T81A Δ	8.99
AD-88 PCB board; original BC-119-11 Δ	19.99
BC-119-N21 Nicad/NiMH desk cgr (use adapt); T81A Δ	99.99
BC-127A Extra nicad charger; IC-Q7 D	.69
BC-133 Drop-in trickle charger; IC-T2H Δ	19.99
BC-122A AC adapter for BC-133 Δ	6.99
BP-83 7.2v 600mah battery D	49.99
BP-90 AA alkaline battery case D	35.99
BP-194 AA alkaline battery case; IC-T2H Δ	18.99

Icom - continued

	AES Price
BP-195 9.6v 700mah nicad batt; IC-T2H Δ	29.99
BP-196 9.6v 1050mah nicad batt: IC-T2H Δ	39.99
BP-200L 9.6v 760mah NiMH battery; T81A Δ	79.99
LC-128 Vinyl case; IC-W32A Δ	34.99
LC-145 Carrying case for IC-T2H Δ	24.99
LCF3 Swivel Leather case w/swivel; IC-T2H Δ	24.99
IC-T90A 5w 6m/2m/440 FM HT/lith ion	*239.99
*Price after mail-in rebate; rebate ends 6/30/08	
AD-92SMA SMA- BNC adapter	16.99
BC-139 Desk rapid charger	94.99
BP-216 Battery case for 2 AA	35.99
BP-217 7.4v 1300mah lith ion battery	89.99
CP-19R Cig lighter cable w/filter	44.99
CS-T90A Windows cloning software; IC-T90A	35.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable (XP only)	60.99
HM-46 Slim-line speaker/mic	45.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-152A Carrying case	24.99
MB-83 Swivel belt clip	9.99
SP-13 Earphone	4.99
IC-P7A 1.5w 2m/1w 440 FM submini HT/lith ion	*229.99
*Price after mail-in rebate; rebate ends 6/30/08	
AD-92SMA SMA- BNC adapter	16.99
BP-243 3.7v 1800mah lith ion battery	56.99
CP-21LR Cig cable w/filter	56.99
CS-P7 Windows cloning software	35.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U/UC PC USB cable	60.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
LC-161 Carrying case	36.99
OPC-782 Plug adapter cable for SP-13	16.99
SP-13 Earphone	4.99

ACCESSORIES

AG-25 2m mast mounted GaSFET preamp	$159.99
AG-35 430 MHz mast mounted preamp	169.99
CT-17 CI-V level converter	129.99
PS-125 25A switching power supply	299.99
SM-20 Deluxe desk microphone	199.99
SP-5 Mobile speaker	39.99
SP-10 Slim-line external speaker	69.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99

CONSUMER ELECTRONICS

A-24 5w air handheld w/NiMH battery	$319.99
IC-F21-GM 15 ch 4w GMRS/FRS handheld	129.99
IC-M32 Waterproof 5w VHF marine handheld D	149.99
IC-M72 Waterproof 6w VHF marine handheld	199.99
M-710 (21) 150w HF marine SSB spec order	1399.99
AT-130 HF marine auto ant tuner spec order	449.99
M-802 150w DSP marine SSB Xcvr spec order	1749.99

IDIOM PRESS (IDI)

K-5 Logikey CW keyer	$149.99
HK-3 Hook-up kit	10.99

International Ant (IAC)

40m-S 40m half sloper 33' antenna Δ	$ 19.99

ISOTRON (ISO)

160C 160m 9.5' x 16" x 15" 100 KHz bandwidth ant	$173.99
80 80m 32" x 16" x 15" 110 KHz bandwidth ant	109.99
40 40m 22" x 16" x 15" 250 KHz bandwidth ant	88.99
20 20m 21" x 8" x 4" 350 KHz bandwidth ant	78.99

Isotron - continued

	AES Price
15 15m 21" x 1.5" x 4" 450 KHz bandwidth ant	78.99
10 10m 16" x 1.5" x 4" 1 MHz bandwidth ant	78.99
6 6m 16.5" x 2" x 4" 1.25 MHz bandwidth ant	78.99
80/40 Combo 80/40m 32" x 16" x 30" ant	188.99
40/20 Combo 40/20m combo antenna	167.99
20/15/10 Combo 20/15/20m combo ant	198.99

JR (JRP)

317275 XS3 synth FM pistol/1-Z590M/1-Z270 75M Δ	$ 69.99
SP-100 SC-1 fwd/rev speed control Δ	19.99

K-COM (KCO)

RF-1 Sgl line modular phone 3-30 MHz RFI filter	$ 16.99
RF-1/Low Modular phone .5-3 MHz RFI filter	16.99
RF-1/2-line 2-line modular 3-30 MHz RFI filt	22.99
RF-1/coiled Coiled cord modular 3-30MHz filt	22.99
RF-2 Hard-wired telephone 3-30 MHz RFI filt	10.99
RF-2/Low Hard-wired phone .5-3 MHz RFI filt	10.99

KNK Marketing (KNK)

RLG 2007 So CA rptr listings/SW USA rptr map	$ 5.00

KANTRONICS (KAN)

KPC-3 Plus/128K Small packet TNC/128K RAM	$218.99
KPC-9612 Plus/128K 9600 controller/128K	410.99
(CSS) Pacterm for Windows Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor	19.99
APRS adapter cable; GPS to Kantronics TNC D	24.99
KAM 98 Single port multi-mode dig controller D	299.99
(CSS) Pacterm for Windows Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor	19.99
APRS adapter cable; GPS to Kantronics TNC D	24.99
KAM XL All mode TNC w/DSP modems	425.99
(CSS) Pacterm for Windows Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor	19.99
APRS adapter cable; GPS to Kantronics TNC D	24.99
MT-1200 Mobile Tracker TNC for external NMEA GPS	239.99
MT-1200G Mobile Tracker TNC w/GPS/antenna	299.99

KENT (KNT)

SK-1 Straight key	$129.99
SP-1 Single paddle key	139.99
TP-1 Dual paddle iambic key	149.99
VK-1 Vail Correspondent straight key	179.99

KENWOOD (KEN)

TS-B2000 PC ctl HF/6m/2m/430 Xcvr/tuner	*1399.99
*Price after instant coupon; coupon expires 5/31/08	
TS-2000 HF/6m/2m/430 Xcvr/ant tuner	*1594.99
*Price after instant coupon; coupon expires 5/31/08	
UT-20 1.2GHz module Kenwood install only	
TS-2000X HF/6m/2m/430/1.2 Xcvr/tuner	*2064.99
*Price after instant coupon; coupon expires 5/31/08	
KPS-15 23A switching ps w/fan, 25A surge	134.99
ARCP-2000 PC control soft; included w/TSB	82.99
DRU-3A Digital recording unit	129.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
MB-430 Mobile mounting bracket	49.99
MC-43S Extra 8-pin hand mic w/up-down	59.99
MC-57DM Back-lit TTP hand mic	79.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MC-90 2-head DSP desk microphone	249.99
PG-2Y 13' DC cable	39.99
PG-2Z 6.5' heavy duty DC cable	37.99
RC-2000 Remote faceplate mobile kit	369.99
SP-23 External speaker	89.99
VS-3 Voice synthesizer	39.99
TS-480HX 200w HF/100w 6m Xcvr	*1094.99
*Price after instant coupon; coupon expires 5/31/08	
TS-480SAT 100w HF/6m Xcvr w/auto tuner	*989.99
*Price after instant coupon; coupon expires 5/31/08	
KPS-15 23A sw ps/fan, 25A surge (use 2 for 200w)	134.99

Kenwood - continued

	AES Price
E30-3489-05 Extra 6' DC cable for TS-480	38.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
MB-480 Carrying bracket w/handle	47.99
MC-43S Extra 8-pin hand mic w/up-down	59.99
MC-47 Multi-function 8-pin hand mic	59.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MC-90 2-head DSP desk microphone	249.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-4Z 13' panel extension kit	58.99
PG-20 22' DC cable	46.99
SO-3 TCXO unit	109.99
SP-23 External speaker	89.99
SP-50B High quality external mobile spkr	55.99
VGS-1 Voice guide & storage unit	67.99
YF-107C 500 Hz CW filter	119.99
YF-107CN 270 Hz CW filter	119.99
YF-107SN 1.8 KHz SSB filter	119.99
7-pin DIN plug	4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99
AT-50 External HF auto tuner Δ	319.99
PG-4M 18' extension cable for AT-50 Δ	29.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
KES-5 Heavy duty 40w unterminated speaker	59.99
KPS-15 23A switching ps w/fan, 25A surge	134.99
LF-30A 1kw PEP low pass filter	64.99
MC-43S 8-pin hand mic w/up-down switch	59.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-3B 15A DC line noise filter	29.99
SO-2 TCXO unit; TS-570D/S Δ	179.99
SP-31 External speaker; TS-870S Δ	99.99
SP-50B High quality external mobile speaker	55.99
SP-950 Ext spkr/audio filters; TS-950SDX Δ	149.99
YK-88C-1 500 Hz CW filter; TS-570D/S Δ	129.99
YK-88CN-1 270 Hz CW filter; TS-570D/S Δ	129.99
YK-88SN-1 1.8 KHz SSB filter; TS-570D/S Δ	129.99
YK-107C 500 Hz CW filter; TS-50S Δ	119.99
TM-V71A 50w 2m/50w 440 FM Xcvr	399.99
DFK-3D Detachable front panel kit	47.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-5A Packet data cable	15.99
PG-5F Extension cable kit	71.99
PG-5G Programming interface kit	37.99
PG-5H PC interface kit	59.99
RC-D710 TNC/APRS control head	329.99
PG-5J Interface kit; external TNC w/RC-D710	87.99
SP-50B High quality external mobile spkr	55.99
VGS-1 Voice guide & storage unit	67.99
TM-D710A 50w 2m/50w 440 FM Xcvr/TNC	599.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-5A Packet data cable	15.99
PG-5F Extension cable kit	71.99
PG-5G Programming interface kit	37.99
PG-5H PC interface kit	59.99
SP-50B High quality external mobile spkr	55.99
VGS-1 Voice guide & storage unit	67.99
TM-271A 60w 2m FM Xcvr w/WX alert	169.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-5D PC interface cable	78.99
SP-50B High quality external mobile spkr	55.99
DFK-3 9' separate displ cable kit;642/742 Δ	28.99
DFK-3C 9' sep disp cable kit; TMG707A Δ	44.99
DFK-4 13' remote cable kit; 642/742AD Δ	59.99
DFK-4C 13' remote cable kit; TMG707A Δ	64.99
DFK-7 Dlx 22' remote cable kit;642/742 Δ	69.99

Kenwood - continued

	AES Price
DFK-7C Dlx 23' remote cable kit; TMG707A Δ	99.99
KQT-8/TSU-6 Prog CTCSS decoder; TM-541A Δ	49.99
MB-201 Extra mobile bracket; TMD-700A Δ	25.99
MC-57DM Back-lit TTP mic;241/331/441/541	79.99
MC-58DM Back-lit TTP mic;251/733/742/255/V7A	79.99
PG-4S PC interface cable; TM-G707A Δ	32.99
PG-4X 13' extension cable kit; TMD-700A Δ	69.99
RC-D710 TNC/APRS control head	329.99
PG-5J Interface kit; external TNC w/RC-D710	87.99
TSU-7 CTCSS decoder unit; TM-642/742AD Δ	49.99
TU-7 Prog encoder; 2550/751A/TW-4100A Δ	49.99
PB-34 9.6v 600mah 5w battery; TH-22 Δ	79.99
SC-45 Soft case for TH-G71A/PB-38/39 Δ	6.99
TH-K2AT 5w 2m FM HT/battery/charger	139.99
BT-14 6-AA battery holder	19.99
EMC-3 Lapel clip mic/ear piece D	24.99
HMC-3 VOX/boom mic headset	48.99
KHS-21 Boom mic headset	33.99
KHS-26 Lapel clip mic/ear piece	24.99
KSC-24 Rapid charger	48.99
PB-43N 7.2v 1100mah NiMH battery	44.99
PG-2W DC cable w/fuse	17.99
PG-3J Cig lighter cord w/filter	37.99
PG-4Y 9-pin PC programming cable	32.99
SC-54 Soft case	16.99
SMC-32 Mini water resist rt angle spkr/mic	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag; TH-22/42AT	29.99
TH-D7A(G) 5w 2m/440 FM HT/1200/9600 TNC	344.99
BC-19 Rapid charger	64.99
BT-11 4-AA battery holder	17.99
EMC-3 Lapel clip mic/ear piece D	24.99
HMC-3 VOX/boom mic headset	48.99
J29-0631-13 Belt clip for batt; D7A/G71A	4.99
KHS-26 Lapel clip mic/ear piece	24.99
PB-39 9.6v 600mah 5w battery	57.99
PG-2W DC cable w/fuse	17.99
PG-3J Cig lighter cord w/filter	37.99
PG-4W PC software/cable; TH-D7A(G)	55.99
SC-47B Black soft case for TH-D7A(G)	15.99
SC-47OR Orange soft case for TH-D7A(G)	15.99
SMC-32 Mini water resist rt angle spkr/mic	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag	29.99
TH-F6A 5w 2m/220/440 FM HT/lith ion	329.99
BT-13 AA battery case	25.99
EMC-3 Lapel clip mic/ear piece D	24.99
HMC-3 VOX/boom mic headset	48.99
KHS-21 Boom mic headset	33.99
KHS-26 Lapel clip mic/ear piece	24.99
PB-42L Extra 7.4v 1550mah lithium ion batt	79.99
PG-2W DC cable w/fuse	17.99
PG-3J Cig lighter cord w/filter	37.99
PG-4Y 9-pin PC programming cable	32.99
SC-51 Soft case w/swivel belt clip	16.99
SMC-32 Mini water resist rt angle spkr/mic	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag	29.99

CONSUMER ELECTRONICS

TKM-707 150w HF marine SSB Xcvr spec order	1249.99
KAT-1 HF marine auto ant tuner ...spec order	569.99

KESTER (KES)

82-5000-0004 .5 oz 60/40 lead solder, .040 dia	$ 3.99
82-6000-6535 .5 oz lead-free solder, .040 dia	3.99

KLEINHUIS (KLE)

1309 Isolated grounding bar	$ 14.99

KOSS (KOS)

	AES Price
KTX/8 Collapsible stereophone w/vol control	$ 14.99
QZ/5 Passive noise reduction stereophone	49.99
QZ/50 Active noise reduction stereophone	49.99
QZ/99 Noise reduction stereoph w/mono sw	59.99
QZ/2000 Active noise reduction stereophone Δ	89.99
Y-88 Dual stereophone Y-adapter	4.99

LDG (LDG)

AT-100Pro 160-6m 1-125w/100w 6m auto tuner	$199.99
AT-200Pro 160-6m 5-250w/100w 6m auto tuner	229.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
AT-200PC 160-6m 5-250w/100w 6m PC ctl tuner D	199.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
AT-897 Bolt-on auto tuner for Yaesu FT-897	199.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
AT-7000 Tuner; IC7000/706/703/718/746/756	169.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
AT-1000 1000w PEP HF/100w 6m auto tuner D	449.99
AT-1000Pro 1000w PEP HF/250w 6m auto tuner	549.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
Icom-IC1 Icom 10' interface cable for tuner Δ	19.99
Icom-IC2 Icom 8" interface cable for tuner Δ	8.99
DTS-4 4-pos HF/6m 1500/250w ant switch	79.99
DTS-4R Remote control for DTS-4	39.99
DTS-6 6-pos HF/6m 1500/250w ant switch	99.99
DTS-6R Remote control for DTS-6	49.99
Z-11Pro 160-6m .1-125w/100w 6m auto tuner	179.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
Z-100 160-6m .1-125w/50w 6m auto tuner	149.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
DM-7800 Dual 4.5" meters for IC-7800	179.99
FT-METER Multi-function meter for FT-857/897	49.99
MULTI-DC 12vdc distribution box D	49.99
RCA-14 Transceiver cable breakout box	59.99
TW-1 160-6m 2kw PEP talking wattmeter/SWR D	149.99
TW-2 6m-440 250w PEP talking wattmeter/SWR D	139.99

LA CROSSE (LAC)

EA-3010 Handheld wind indicator	$ 49.99
IR-101 Infra-red thermometer D	39.99
WS-450B Color forecast station	69.99
WS-1612CH-IT Professional wireless WX stn	139.99
WS-2010-13 PC interface/soft; WS-2010 D	29.99
WS-7013U Wireless temperature station D	14.99
WS-7013BZ Wireless temperature station D	19.99
WS-7014CH Wireless forecast station	49.99
WS-7394U-CH-IT Wireless forecast station	69.99
WS-8117U-IT-Oak Atomic clock/in/out temp/moon	46.99
WS-8025AL Dlx sun/moon wireless WX stn D	89.99
WS-8035U-SAL-IT Dlx wireless forecast stn	89.99
WS-9004U-IT Wireless rain gauge	29.99
WS-9016TWC Sun/moon wireless weather stn D	59.99
WS-9023U-IT Wireless temperature/humidity	29.99
WS-9080U-IT-CBP Wireless temperature station	29.99
WS-9121U-IT-CBP Wireless thermometer	19.99
WT-3102S 10" 12-hour analog atomic clock	19.99
WT-5120 Projection alarm/out temp/in humidity	39.99
WT-5431 Projection alarm w/remote temp D	29.99

LAKEVIEW (LAK)

9175 75m 7' Hamstick antenna	$ 39.99
9160 60m 7' Hamstick antenna	39.99
9140 40m 7' Hamstick antenna	39.99
9130 30m 7' Hamstick antenna	39.99

Lakeview - continued

	AES Price
9120 20m 7' Hamstick antenna	39.99
9117 17m 7' Hamstick antenna	39.99
9115 15m 7' Hamstick antenna	39.99
9112 12m 7' Hamstick antenna	39.99
9110 10m 7' Hamstick antenna	39.99
9106 6m 4.5' Hamstick antenna	39.99
901 Dipole mount for 2 Hamsticks	19.99
IM-1 Inducti-match for 75-12m mobile ant	26.99
TM-1 License plate mount, ⅜-24	49.99

LARSEN/PULSE (LAR)

27-31 MHz ANTENNA

NMO-27B 10m black ant only (no mount)	$ 36.99
NMO-27C 10m ant only (no mount)	32.99

47-54 MHz ANTENNA

NMO-50B 6m black ant only (no mount)	$ 36.99
NMO-50C 6m ant only (no mount)	32.99

144-174 MHz ANTENNAS

NMO-150B 2m black ant only (no mt), 3 db	$ 33.99
NMO-150C 2m ant only (no mount), 3 db	30.99
OM-150CK 2m no ground plane antenna	69.99

440-460 MHz ANTENNA

NMO-440C 440 ant only (no mount), 3.4db	$ 29.99

890-960 MHz ANTENNA

NMO-900B 900 black ant only (no mt), 3.4db	$ 39.99
MM-2/70PL 2m/440 0/1.8db mag mt ant	64.99
NMO-2/70B 2m/440 blk ant only (no mt), 1.6/3.5db	79.99
NMO-2/70-SH 2m/440 ant (no mt), 0/1.8db	49.99
NMOQ-Spec 136-960 MHz ¼ wave ant (no mt)	9.99
NMOQ-Spec-B 136-960 black ¼ wv ant (no mt)	15.99
NMOQ-Spec-K 136-960MHz ¼ wv ¾" hole ant	24.99
GPS-NMO02 GPS NMO mount ant (no mt)	69.99
NMO-150450800 3-band scanner ant (no mt)	29.99

ON GLASS ANTENNAS

KG-144-UD-PL 2m on glass antenna	$ 89.99
KG-440-UD-PL 440 on glass antenna Δ	39.99
KG-2/70-CX-PL 2m/440 on glass antenna	139.99
KG-Reinstall Reinstall kit for KG-ants	9.99

KULDUCKIES - For Hand-helds

KD4-2/70 2m/440 9" BNC Kulduckie	$ 39.99
KD4-146-HQ 2m 10.5" BNC Kulduckie	25.99
KD14-2M-HW 2m 44.5" BNC telescopic whip	38.99
KD14-445 440 6.5" BNC Kulduckie	19.99

ACCESSORIES

BSA-K 144-512MHz base mtg kit; NMO/UHF ant	$ 53.99
HP-34 3/4" hole plugs (5)	3.99
NMO-B38 NMO mt hdw/A-7 NLA adapter D	6.99
NMO-CAP-B Black rain cap for NMO mount	5.99
NMO-K ¾" hole mt w/coax for NMO ant	15.99
NMO-KHF-UD ¾" NMO hole mt/coax (less plug)	12.99
NMO-MMR Round mag mt, coax for NMO ant	32.99
NMO-TLP Low profile tnk lid mt, coax; NMO ant	29.99
PO-K Roof mt, coax for SO-239 ant	32.99
PO-MM Magnet mt, coax for SO-239 ant	36.99
RG-SS Extra super seal NMO gaskets (3)	5.99
SPRING Shock spring	10.99
TMB-34 Trunk mtg bkt for NMO antenna	5.99
TMB-34B Black trunk mtg bkt for NMO ant	7.99
W-2/70B 2m/440 black replacement mobile whip	29.99
W-KG2/70 2m/440 replacment on glass whip	29.99
W-490 49" replacement moible whip	9.99
W-490B Black 49" replacement mobile whip	12.99

LIDO (LID)

LM-100 Vent mount for remote heads	$ 14.99
LM-300 Seat bolt mount	24.99
LM-400EXP WindowMate mt w/express holder	19.99
LM-500H Low vibration windshield/dash mt	29.99
LM-600 LoBoy low profile universal mt/swivel	14.99

Lido - continued

	AES Price
LM-700 Ultimount univ mt; radio control heads	24.99
LM-800EXP Cup holder mt w/express mount	19.99
LM-900BG Bug Mount; dash/console/windshield	19.99
LM-1000EXP Motorcycle/bike mt/express holder	19.99
LM-1200 Vent mount for microphone hang up	7.99
Adhesive Kit 1 For LoBoy and Bug Mounts	5.99
Adhesive Kit 2 For LM-400 series/LM-500 series	4.99

LIGHTWAVE (LIG)

LW-HT 4 LED/3 AA-cell illuminator head torch D	$ 24.99
LW-PB 1 LED/2 lith-cell pocket flashlight D	6.99
LW-3000 7 LED/3 C-cell flashlight D	24.99
LW-4000 10 LED/3 D-cell flashlight D	34.99

LOGSAT (LOG)

Logsat Professional Satellite tracking CDROM	$ 69.99

M² (MSQ)

6M-3SS 6m 6.06db 3el 5' 9" boom beam	$141.99
6M-3 6m 50-50.6 or 51-54 6.4db 3el 6'9" bm beam	170.99
6M-5X 6m 50-50.5 or 51-54 9.4db 5el 18' bm beam	283.99
6M-7JHV 6m 50-50.4 10.9db 7el 30'8"bm beam	351.99
6M-HO-LOOP 6m 50-50.3 4.4db horiz loop ant	129.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
Mast/Top Bkt Top bracket for mast; HO stack	21.99
2M-3SS 2m 6.16db 3el 3' boom beam	73.99
2M-4 2m 7.5db 4el 4' boom beam	129.99
2M-7 2m 10.3db 7el 8'10" boom beam	144.99
2M-9SSB/FM 2m SSB or FM 12db 9el 14' 6" boom	168.99
2M-12 2m 12.8db 12el 19'6" boom beam	226.99
2M-5WL 2m 14.8db 17el 33' boom beam	283.99
2M-18XXX 2m 144-146 15.3db 18el 36'3" bm beam	328.99
2M-CP14 2m 10.3db 7h/7v 10'6"bm circ beam	226.99
2M-CP22 2m 12.5db 11h/11v 18'6"bm circ beam	329.99
PS-2M 2m polarity switch; circ pol beam	201.99
FG X-Boom Kit For circular antennas, etc.	186.99
2M-HO-LOOP 2m 144-144.5 4.86db horiz loop	56.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
Big-Foot 4x-mag mt; 2M-HO-LOOP stack/etc	129.99
MAG-KIT Magnet mt kit; single 2m-HO-LOOP	28.99
Mast/Top Bkt Top bracket for mast; HO stack	21.99
STACK-KIT Stack kit for 2 2m-HO-LOOP's	80.99
EB-144/RK-2M 2m Eggbeater w/reflector kit	241.99
222-5SS 222-225 8.16db 5el 3' boom beam	85.99
222-7EZ 220 9.8db 7el 5' 8" boom beam	119.99
222-10EZ 220 12db 10el 9' 9" boom beam	134.99
222-5WL 220 15.2db 15el 23'3" boom beam	226.99
222-7WL 220 16.4db 23el 32'5" boom beam	283.99
222-HO-LOOP 220-224 4.75db horiz loop ant	56.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
MAG-KIT Magnet mt kit; single 222-HO-LOOP	28.99
Mast/Top Bkt Top bracket for mast; HO stack	21.99
440-6SS 420-450 8.86db 6el 3' boom beam	72.99
420-50-11 432 11.3db 11el 5' bm rear mt beam	129.99
440-18 432 14.5db 18el 11'4" boom beam	159.99
440-21ATV 432 15.9db 21el 14'6" bm ATV beam	201.99
436-CP30 432 14.5db 15h/15v 9'9"bm circ beam	329.99
436-CP42UG 432 16.8db 21h/21v 18'10"bm circ	387.99
PS-70CM 432 polarity switch; circ pol beam	201.99
FG X-Boom Kit For circular antennas, etc.	186.99

M² - continued

	AES Price
432-9WL 432 17.3db 28el 21' boom beam	244.99
432-HO-LOOP 430-436 5db horiz loop ant	56.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc	129.99
MAG-KIT Mag mt kit; single 432-HO-LOOP	28.99
STACK-KIT-70CM Stack kit; 2-432-HO-LOOP's	80.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit	226.99
23CM-22EZA 1.2GHz 16db 22el 5'2" bm beam	170.99
23CM-35 1.2GHz 18.4db 35el 10' bm beam	226.99
2M-2-Port-PD 2m 2-port type N power divider	79.99
2M-4-Port-PD 2m 4-port type N power divider	122.99
70CM-2-Port-PD 432 2-port N power divider	79.99
23CM-2-Port-PD 1.2GHz 2-port N power divider	79.99
OR-2800PDC 35 sq ft azimuth rotor/control/8-wire	1598.99

MFJ (MFJ)

ANTENNA TUNERS

9982 2.5kw continuous w/roller inductor	$649.99
989D Dlx 1.5kw PEP w/roller inductor	349.99
986 3kw PEP w/roller inductor	319.99
962D 1.5kw PEP/meter/switch/balun/roller ind	279.99
969 HF & 6m 300w roller inductor tuner	199.99
949E 300w/PEP meter/dummy/switch/balun	169.99
948 300w/meter/switch/balun	149.99
941E 300w tuner w/meter, switch, balun	129.99
945E 300w tuner w/meter plus 6m	119.99
20 Mobile bracket for 945E	6.99
901B Versa Tuner 200w ant tuner	99.99
910 80-10m mobile antenna matcher	29.99
16010 200w random wire tuner	69.99
974B 3.5-54MHz balanced line ant tuner	179.99
974HB 1.8-54MHz balanced line ant tuner	199.99
991 150w automatic antenna tuner D	129.99
991B 150w automatic antenna tuner	209.99
993B 300w deluxe automatic antenna tuner	249.99
994B 600w automatic antenna tuner	339.99
1316 12vdc 1.5A adapter; auto tuners	21.99
5124A Alinco interface cable; auto tuners Δ	9.99
5124I Icom interface cable; auto tuners	19.99
5124K Kenwood interface cable; auto tuners	59.99
5124Y Yaesu interface cable; auto tuners	59.99
998 1.5kw automatic antenna tuner	649.99
1316 12vdc 1.5A adapter; auto tuners	21.99
5114I Icom interface cable	19.99
5114K Kenwood interface cable	19.99
5114Y Yaesu interface cable	19.99
902 80-10m 150w travel tuner	99.99
903 6m antenna tuner	69.99
906 6m antenna tuner w/wattmeter	99.99
914 Auto tuner extender	79.99
921 2m/220 300w PEP tuner/SWR/wattmeter	89.99
924 440 MHz 300w PEP tuner/SWR/wattmeter	89.99
934 300w tuner w/artificial ground	199.99

MEMORY KEYERS

451 Dedicated CW keyboard w/memory	$119.99
452 CW keyboard/keyer w/disp/keyboard	149.99
452X CW keyboard/keyer w/disp, no keyboard	119.99
498 Dlx CW keyboard/keyer w/disp/keyboard D	89.99
490 492 keyer/Bencher paddle combo	209.99
490X 492 keyer for use w/Bencher or 564	119.99
564 Deluxe iambic chrome paddle for 490X	69.99
564B Deluxe iambic black paddle for 490X	69.99
492 192 char menu driven memory keyer	119.99
495 Millennium memory keyer	179.99

ELECTRONIC KEYERS

401D Econo keyer	$ 69.99
407D Deluxe electronic keyer	79.99

MFJ - continued

AES Price

KEYER/PADDLES

422D	Keyer/Bencher paddle combination	$189.99
422DX	Keyer only	99.99
441	SlimLine econo keyer	79.99
442	SlimLine keyer/Bencher paddle combo Δ	139.99
447	SlimLine deluxe keyer	99.99
564	Deluxe iambic chrome paddle	69.99
564B	Deluxe iambic black paddle	69.99

COMPUTER INTERFACES

1224	Computer Interface D	$ 79.99
1285	Software for IBM; 1224 D	9.99
781	DSP filter for any TNC or controller Δ	14.99
1214PC	Multimode interface for IBM Δ	129.99
1272B	TNC to microphone interface Δ	49.99
1272BYH	TNC/mic switch; KAM HF Δ	34.99
1272BYV	TNC/mic switch; KAM VHF Δ	34.99
1272M	TNC/mic RJ-45 switch; MFJ/PK-900 Δ	39.99
1272MYV	TNC/mic RJ-45 sw; KAM VHF; KPC3 Δ	39.99
1284M	3½" IBM starter pack D	.49
1284W	MFJCOM for Windows Δ	19.99
1289W	Multicom for Windows with cable Δ	39.99
1289WD	Multicom for Windows, less cable Δ	29.99

SSB/CW FILTERS

751B	Super tunable CW audio filter	$ 89.99
752C	Dual tunable SSB/CW filter	109.99
784B	Deluxe tuneable DSP filter	259.99
5184	Cable pack for 784B	9.99

PHONE PATCH

624D	8p phone patch w/audio VU meter D	$139.99
624E	8p/mod phone patch w/audio VU meter	149.99

DUMMY LOADS

250	2kw PEP dummy load w/oil	$ 69.99
250X	2kw PEP dummy load, less oil	49.99
21	1 gal industrial xfmr oil for wet dummy	29.99
260C	300w 0-650 MHz dry dummy load	39.99
260CN	300w 0-650 MHz type N dry dummy	49.99
264	1.5kw 0-650 MHz dry dummy load	74.99
264N	1.5kw 0-650 MHz type N dry dummy	84.99
267	1.8-60 100w dry dummy load/SWR/wattmeter	159.99

SWR/WATTMETERS

812B	144-220 MHz SWR/FS/wattmeter	$ 39.99
815C	160-10m cross-needle SWR/wattmeter	99.99
816	1.8-30 MHz toroidal SWR/wattmeter	39.99
817C	2m/220/440 cross needle meter	99.99
841	2m 5w in-line HT wattmeter/SWR	49.99
844	Compact 2m/440 SWR/wattmeter	79.99
860	1.8-60 MHz cross-needle meter	59.99
862	2m/220/440 cross-needle meter	69.99
864	1.8-60MHz/2m/440 cross needle meter	99.99
868	HF 6.5" diagonal PEP SWR/wattmeter	149.99
870	1.6-60MHz Grandmaster SWR/wattmeter	99.99
872	1.8-200MHz Grandmaster SWR/wattmeter	99.99
873	125-525MHz Grandmaster SWR/wattmeter	119.99
874	1.8-525MHz Grandmaster SWR/wattmeter	129.99

SHORTWAVE ACCESSORIES

306	Car radio SWL converter	$109.99
956	LW/MW/SW preselector/tuner	69.99
959C	SW receiver ant tuner w/preamp	119.99
1020C	.3-30 MHz indoor active receive ant	99.99
1022	300KHz-200MHz active rcv antenna	69.99
1024	.05-30 MHz outdoor active rcv ant	149.99
1040C	Deluxe receiver preselector	119.99
1045C	Receiver preselector	89.99

BOOKS

30	Golden Classics book	$ 14.95
32	Packet Made Easy book	12.95
33	Mobile Handbook	14.95
36	Shortwave Listeners Guide; Apts/Condos	12.95
37	Ham Communications Circuit Files book	12.95
38	Easy-up Antennas book	19.95

MFJ - continued

AES Price

3036	The Packet Radio Operators book	14.95
3101	Fox Hunt Adventure book	9.95
3211	Technician license guide	12.95
3213	General license guide	12.95
3301	Troubleshooting Antenna & Feedlines book	14.95
3302	73 Dipole and Long-Wire Antennas	14.95
3303	73 Vertical, Beam, and Triangle Ants	14.95
3305	Antennas & Transmission Lines book	19.95
3400	Morse Code: Breaking the Barrier	19.95
3502	Solid State QRP Projects	12.95
3504	FET Principles, Experiments & Projects	16.95
3506	Ferromagnetic-Core Design book	19.95
3507	Practical RF Design Manual	19.95
3509	Ladder Crystal Filters	19.95

CLOCKS

105C	24-hour quartz wall clock	$ 24.99
107B	24-hour digital clock	12.99
108B	24/12-hour dual disp digital clock	21.99
112B	Deluxe world map clock	29.99
113	24/12-hr 1.8" LED clock/batt back-up	19.99
118	Giant 24/12 hour LCD clock	29.99
123	Eternity solar atomic clock D	59.99
123B	Eternity solar atomic clock	79.99
125	Calendar 24-hour analog wall clock	34.99

ANTENNAS

343	1⅛" hole mount for 3/8-24 whip	$ 9.99
1402	2m/440 0/3db 16.5" 100w ant only	34.99
1412	2m/440 3/5.5db 40" 200w ant only	49.99
1422	2m/440 3.2/5.7db 41.5" 150w ant only	49.99
1432	2m/440 5/7.6db 62.5" 150w ant only	69.99
1436	6m/2m/440 2.15/4.5/7.2db 59" ant only	79.99
333BM	3.5" HiFlux NMO mag mt; not 1436	14.99
333BS	3.5" HiFlux SO-239 magt mt not 1436	14.99
335BM	5" HiFlux NMO mag mt; not 1436	21.99
335BS	5" HiFlux SO-239 mag mt; not 1436	21.99
340	Mirror/luggage pipe clamp mount	34.99
345S	Trunk/hatchback lip mt SO-239 mt	34.99
1516	2m 15' vertical base antenna	99.99
1621	40-10m 54" portable ant w/tuner	99.99
1622	40-2m apartment antenna	99.99
1624	40-6m mini bugcatcher antenna	89.99
1661	40-6m portable manual screwdriver ant	139.99
1664	80-6m portable manual screwdriver ant	169.99
1710	2m ⅜ wave telescopic BNC antenna	9.99
1712	2m/440 telescopic BNC antenna	14.99
1712S	2m/440 telescopic SMA antenna	14.99
1713	2m/440 SuperFlex Thin Duk HT ant	19.99
1713S	2m/440 SuperFlex SMA Thin Duk ant	19.99
1714	2m ½ wave telescopic BNC antenna	16.99
1715	2m/440 SuperFlex gain Thin Duk HT ant	24.99
1715S	2m/440 SuperFlex gain SMA Thin Duk	24.99
1716	2m/440 duck for HT	16.99
1716S	2m/440 SMA duck for HT	16.99
1717	2m/2.15db 440 duck for HT	21.99
1717PL	2m/440 foldover flexi-duck, PL-259	24.99
1717S	2m/2.15db 440 SMA duck for HT	21.99
1719	2m/440 BNC Midget Duck	19.99
1719S	2m/440 SMA Midget Duck	19.99
1720S	6m/2m/440 SMA Duck	29.99
1721	2m HT UltraLite mag mt antenna	15.99
1722	2m/440 HT UltraLite mag mt BNC ant	19.99
1724B	2m/440 magnet mt antenna	24.99
1728B	6m ¼ wv/2m ⅝ wv mag ant/PL259/BNC	34.99
1729	2m/440 magnet mt antenna	39.99
1730	2m pocket roll-up vertical antenna	29.99
1734	2m/440 2.6/6.3db glass mt antenna	44.99
1736	6m J-Pole travel antenna	29.99
1738	2m 2.6db glass mt antenna	34.99
94	Remount kit for 1734/1738	4.99
1740	2m ¼ wave ground plane ant	29.99
1750	2m ⅝ wave ground plane ant	34.99

MFJ - continued

AES Price

1752	220 ⅝ wave ground plane ant	34.99
1754	2m/440 ground plane antenna	39.99
1762	6m 6db 3 el 6' boom beam	99.99
1763	2m 3el portable beam	54.99
1764	2 & 6m dual ⅝ super gain base ant	59.99
1768	2m/440 4/7 el beam antenna	99.99
1778	G5RV 160-10m 102' ant (needs tuner)	44.99
1786	Super Hi-Q 10-30 MHz loop/dlx control	419.99
1788	Super Hi-Q 40-15m loop/dlx controller	469.99
1796	40/20/15/10/6/2m 10' vertical ant	219.99
1798	80/40/30/20/17/15/12/10/6/2m 20' vert	289.99
1800	2.4GHz wi-fi 16 element 15db beam	29.99
5606SR	6' N male - rp-SMA female cbl for 1800	24.99
1899T	80-6m telescopic antenna; FT-817	79.99
1910	33' telescoping fiberglass mast	79.99
1954	3/8-24 10' telescopic whip	29.99
1956	3/8-24 12' telescopic whip	34.99

CABLES

5020	MFJ TNC - Yae FT50R/compat Δ	$ 9.99
5020YV	KAM VHF/KPC3 - Yae FT50R/compat Δ	9.99
5022YV	KAM VHF/KPC3 - Ali/Sta HT cable Δ	9.99
5024	MFJ TNC - Ico/Yae/Ali/RS HT cable Δ	12.99
5024B	PK/PacComm/compat - Ico/Yae/RS Δ	9.99
5024YV	KAM VHF/KPC3 - Ico/Yae/Ali/RS HT	17.99
5026	MFJ TNC - Kenwood HT cable Δ	9.99
5026YV	KAM VHF/KPC3 - Kenwood HT cable Δ	17.99
5060	MFJ TNC - Ken/Yae acc 6-pin mini DIN Δ	19.99
5060YQ	KPC9612 - Ken/Yae acc 6pin mini DIN Δ	14.99
5060YV	KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN	21.99
5063	MFJ TNC - Icom HF acc 8-pin DIN Δ	14.99
5063YH	KAM DIN HF - Icom HF acc 8-pin DIN Δ	14.99
5064	MFJ TNC - Icom VHF acc 8-pin DIN Δ	9.99
5065	MFJ TNC - Ico IC-706 acc 13-pin DIN Δ	16.99
5065YH	KAM HF - Ico IC-706 acc 13-pin DIN	21.99
5065YV	KAM VHF - Ico IC706 acc 13-pin DIN	21.99
5066	MFJ TNC - Kenwood HF acc 13-pin DIN Δ	14.99
5066YH	KAM HF - Ken HF acc 13-pin DIN Δ	14.99
5080	MFJ TNC - Yaesu 8-pin cable Δ	9.99
5080M	MFJ TNC - Yaesu 8-pin modular Δ	9.99
5080MYV	KAM VHF/KPC3 - Yae 2500M/7400H Δ	14.99
5080YH	KAM HF port - Yaesu 8-pin cable Δ	9.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable	17.99
5082	Open end - 8-pin mic cable	11.99
5084	MFJ TNC - Icom 8-pin cable Δ	9.99
5084M	MFJ TNC - Icom 8-pin modular Δ	14.99
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod	17.99
5084YH	KAM HF port - Icom 8-pin cable Δ	9.99
5084YV	KAM VHF/KPC3 - Icom 8-pin cable Δ	9.99
5086	MFJ TNC - Kenwood/Alinco 8-pin cable Δ	12.99
5086M	MFJ TNC - Kenwood 8-pin modular Δ	9.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod	17.99
5086YH	KAM HF port - Ken/Ali 8-pin cable Δ	9.99
5086YV	KAM VHF/KPC3 - Ken/Ali 8-pin cable	17.99
5088M	MFJ TNC - Radio Shack 8-pin modular Δ	9.99
5205	5-pin DIN open end cable Δ	4.99
5208	Open end - Ico HF/VHF acc 8-pin DIN Δ	6.99
5213	Open end - Kenwood acc 13-pin DIN	11.99
5220R/5220	Open end - Yae FT50R/compat Δ	6.99
5222	Open end - Ali split HT cable Δ	6.99
5224	Open end - Ico/Yae/Ali/RS HT cable Δ	6.99
5268	Open end - modular phone plug cable	11.99
5412	IBM printer cable Δ	6.99
5429	Cable/adapt; RS-232 to USB w/drivers	24.99
5803/10	3' coax jumper cable	5.99

RADIOS/TRANSCEIVERS

8100K	Shortwave regenerative Rcvr kit	$ 79.99
8100W	Shortwave regenerative Rcvr wired	109.99
8621	5w 2m data radio w/145.01 MHz Δ	119.99
8621X2	5w APRS ready 2m data radio/144.39	179.99
4110	Portable AC power supply	59.99
5100	Data radio cable - MFJ/TAPR Δ	9.99

MFJ - continued

	AES Price
5100YV Data radio cable - KAM/KPC-3 ...Δ	9.99
5106 Open end - 6pin mini Ken/Yae cable Δ	4.99
8708 4ch ham micro ATV transmitter	159.99
9015 5w 15m CW Xcvr	199.99
9020 5w 20m CW Xcvr	199.99
9030 5w 30m CW Xcvr	199.99
9040 5w 40m CW Xcvr	199.99
27 Handle for CW station	6.99
412 Plug-in Curtis keyer	49.99
726 Plug-in audio filter	49.99
971 200w portable ant tuner w/meter	119.99
1772 Portable 20m dipole	39.99
1774 Portable 40m dipole	39.99
4110 Portable AC power supply	59.99
4114 Rechargeable power pack	79.99
9402X 7w PEP 2m SSB Xcvr w/mic	279.99
9406X 10w PEP 6m SSB Xcvr w/mic	279.99
9410X 20w PEP 10m SSB Xcvr w/mic	269.99
9420X 20w PEP 20m SSB Xcvr w/mic	259.99
9440X 12w PEP 40m SSB Xcvr w/mic	259.99
9475X 12w PEP 75m SSB Xcvr w/mic	259.99
415B CW adapter for 9420X/9440X	49.99
416 CW adapter for 9402X/9406X/9410X	49.99
971 200w HF portable ant tuner w/meter	109.99
1770A 10m dipole for 9410X	39.99
1772 Portable 20m dipole	39.99
1774 Portable 40m dipole	39.99
4110 Portable AC power supply	59.99
4114 Rechargeable power pack	79.99

ACCESSORIES

1306 6v 300ma adapter ...Δ	$ .69
1312D 12vdc 500ma adapter, 2.1mm plug	15.99
1316 12vdc 1.5A adapter	21.99
15 HamGear belt loop radio holder	14.99
16C01 Glazed ceramic end insulator	.99
18 HamGear chest harness/cargo pocket	29.99
92AA01 AA NiMH cell ...each	3.49
92AA10 10-pack AA NiMH cells	29.99
201 1.5-250 MHz dip meter	139.99
202B RF noise bridge	79.99
207 160-10m SWR analyzer	99.99
208 2m SWR analyzer	99.99
209 1.8-170 MHz SWR analyzer	149.99
212 MatchMaker tune up device	99.99
219B SWR analyzer, 440 MHz/N/SO-239 adapt	119.99
224 2m FM signal analyzer	169.99
249B 1.8-170 MHz SWR analy/LCD counter	249.99
259B 1.8-170 MHz SWR analy/RF res meter	269.99
269 1.8-170+440 MHz SWR analy/RF res mtr	349.99
29C Carrying case w/window; 209/249B/259B	24.99
39C Carrying case w/window; 269	24.99
66 1.8-30/30-170 dip coils; 209/249B/259B	24.99
92AA10 10-pack 1300ma AA NiMH cells	29.99
98 Package of 39C/66/1312D for 269	60.99
98B Pack of 92AA10/39C/66/1312D for 269	93.99
99 Pack of 29C/66/1312D; 209/249B/259B	60.99
99B Pack; 92AA10/29C/66/1312D; 209/249B/259B	93.99
99C Pack - 92AA10/1312D; 209/249B/259B/269	45.99
731 RFI filter for SWR analyzer	99.99
1312D 12vdc 500ma ps for SWR analyzers	15.99
270 Guardian Angel 400w PEP lightning protect	29.99
97 Gas tube plug for 270	9.99
281 ClearTone communications speaker	12.99
288I Headset/mic; Icom/ADI/Sta/RS/older Yae	24.99
288K Headset/mic for Kenwood	24.99
288Y Headset/mic; Ico Q7/Yae FT10/50/VX1	24.99
292I Earph/mic; Ico/older Yae/compatibles	17.99
292Y Earphone/mic; Ico Q7/Yae FT10/50/VX1	17.99
293I Rubber flex earloop earbud/mic; Icom	24.99
293K Rubber flex earloop earbud/mic; Kenwood	24.99
293Y Rubber flex earloop earbud/mic; Yaesu	24.99

MFJ - continued

	AES Price
295I Mini spkr/mic; Icom & compatible HT	16.99
295K Mini spkr/mic; Kenwood & compatible HT	16.99
295Y Mini spkr/mic; Ico Q7/Yae FT10/50/VX1	16.99
297 Desk mic with flexible boom	69.99
5082 Open end - 8-pin mic cable for 297	11.99
5268 Open end - mod phone plug cbl; 297	11.99
5397I Cable/8-pin for 297; Icom HF	17.99
5397K Cable/8-pin for 297; Kenwood HF	17.99
5397Y Cable/8-pin for 297; Yaesu HF	17.99
5397MX Cable/modular for 297; Icom/Kenwood	17.99
5397MY Cable/modular for 297; Yaesu	17.99
310 BNC HT antenna window mount clip	19.99
310S SMA HT antenna window mount clip	19.99
336S 5" tri-mag mt for SO239 ant/17' coax	39.99
336T 5" tri-mag mt for 3/8-24 ant/17' coax	39.99
341M 17' antenna cable; NMO	19.99
341S 17' antenna cable; SO-239	19.99
382 Deluxe amplified communications spkr	39.99
388 Cyber Ear 12db ear amplifier	29.99
392B Deluxe communication headphones	24.99
414 Professional Morse Tutor w/LCD	209.99
417 Code Tutor with QSO ...Δ	49.99
418 Code Tutor with LCD display	89.99
434B Deluxe Voice Memory Keyer	189.99
73 Remote control head w/cbl; 434/434B	34.99
461 Pocket size Morse code reader	89.99
5161 DB-9 PC serial port cable	16.99
5162 Cable for radio external speaker	7.99
462B RTTY/ASCII/CW/AMTOR Rcvr multi-reader	199.99
5162 Cable for radio external speaker	7.99
464 CW reader w/built-in keyer	189.99
550 Hand key	14.99
554 Deluxe CW practice oscillator	99.99
557 Code oscillator w/key	39.99
616 Speech intelligibility enhancer	189.99
1316 12vdc 1.5A adapter	21.99
281 ClearTone speaker (requires 2)	12.99
392B Deluxe communication headphones	24.99
633 Rapid charger; NiMH/nicad AA/AAA/9V	29.99
662 Simplex pocket repeater	89.99
701 Toroid RFI filters ...pack of 4	26.99
704 1kw low-pass filter	59.99
762 81db 170MHz BNC attenuator	89.99
801 Super compact field strength meter	29.99
802 Bipolar field strength meter	49.99
802X Field strength/remote meter combo	74.99
805 RFI current detector meter	99.99
850B AC line voltage monitor	24.99
852 AC power line noise finder meter	119.99
854 HF RF current meter	119.99
886 1MHz - 3GHz pocket frequency counter	119.99
888 Deluxe 10Hz - 3GHz frequency counter	189.99
890 DX beacon monitor	119.99
912 W9INN remote balun	69.99
916B 2m/440 duplexer	34.99
931 Artificial ground unit	109.99
1025 Noise canceling antenna	169.99
1026 Deluxe noise canceling unit w/antenna	189.99
1046 1.6-33MHz receiver passive preselector	109.99
1048 1.6-33MHz Xcvr passive preselector	129.99
1112 Multiple DC outlet	44.99
1116 Dlx multiple DC outlet	59.99
1117 High current multiple DC outlet	64.99
1118 Dlx high current multiple DC outlet	84.99
1263 2mic in/2rig out switch/1 round cbl/1 modlr cbl	119.99
5397MX Modular mic cable for 1263	17.99
1273B Basic soundcard interface/soft; 8P-R	59.99
1273BM Basic soundcard interface/soft; 8P-M	59.99
1275 Soundcard/rig interface/software; 8P-R	109.99
1275M Soundcard/rig interface/software; 8P-M	109.99
1279 Super soundcard interface/soft; 8P-R	139.99

MFJ - continued

	AES Price
1279M Super soundcard interface/soft; 8P-M	139.99
1700C 6-pos combo ant/xmtr switch/protect	99.99
1701 6-position coax switch	69.99
1702C 2-pos coax switch/lightning protect	39.99
1702CN 2-pos 1.1GHz N switch/lightning protect	44.99
1703 2-rig/2-antenna RF safety switch	29.99
1704 4-pos 500 MHz switch/lightning protect	84.99
1704N 4-position type N switch	79.99
1925 Controller; Yaesu ATAS-series/other rigs	79.99
1925I2 Controller; Yae ATAS-series/Ico IC-706	79.99
4035MV Dlx 30A adjustable ps, 35A surge	149.99
4103 Switching power supply; Yaesu FT817/etc	49.99
4125MV MightyLite 22A 3.5 lb switch ps, 25A surge	109.99
4225MV MightyLite 22A switch ps, 25A surge/meters	149.99
4245MV MightyLite 40A switch ps, 45A surge/meters	199.99
4602 House window antenna feedthrough panel	69.99
4712 160-2m 2-pos remote antenna switch	79.99

MAGELLAN (MAG)

980654-01 MapSend DirectRoute; Pro/Color D	$ 29.99
980654-03 MapSend DirectRoute; Gold/Plat/Col D	29.99

MAHA (MAH)

MH-96V200 9.6v 200mah 9v size NiMH battery	$ 12.99
AAA-T 1.2v 650mah AAA size NiMH batt cell ea	2.99
AA-FB 1.2v 1400mah AA NiMH batt w/tabs D,ea	1.49
MH-R-AA4 4pack 1.2v 2700mah AA NiMH cells	14.99
MH-96V200 9.64v 200mah 9v size NiMH batt	12.99
MHS-DC-124 Cig adapter; MH-C124S/C204F Δ	.19
MH-C777 Plus II Univ cgr/analy; lith/nicd/nimh D	74.99
MH-C801D 1-8 AA/AAA NiMH/NiCD quick charger	84.99
MH-C888 Univ drop-in rapid cgr/cond; nicad/nimh	59.99
MHS-C800U External charger pin shell ...†	.49
MHS-C801 Cup; T2/W32/TH22/79/FT10/50 Δ	4.99
MHS-C803 Cup; Kenwood TH-D7A/G71A .Δ	4.99
MHS-C804 Cup; Icom IC-T8A/T81A ...Δ	.49
MHS-C806 Cup; Ali 195/580/F1/G5/V5/etc Δ	4.99
MHS-DC-777 Cig lighter cord	5.99
MH-C9000 4 AA/AAA NiMH WizardOne cgr/analyzer	69.99
MH-K5000 Quick cgr/conditioner w/4 AA2500	39.99
MH-BP-7 13.2v 1000mah Icom nickel hydride	69.99
MH-BP-8 8.4v 1200mah Icom nickel hydride	59.99
MH-BP-83 7.2v 1300mah Icom nickel hydride	49.99
MH-BP-173 9.6v 650mah Icom nickel hydride	69.99
MH-BP-180 7.2v 1000mah Icom nickel hydride	49.99
MH-BP-199 6v 700mah Icom nick hyd/clip ..Δ	14.99
MH-BP-200 9.6v 680mah Icom nick hydride/clip	59.99
MH-FNB-12 12v 1000mah Yaesu nickel hydride	59.99
MH-FNB-17 7.2v 1000mah Yaesu nickel hydride	49.99
MH-FNB-27 12v 900mah Yaesu nickel hydride	59.99
MH-FNB-38 9.6v 650mah Yaesu nickel hydride	59.99
MH-FNB-41 9.6v 1000mah Yae nick hyd/spg clip	55.99
MH-FNB-V47 7.2v 1800mah Yae nick hyd/spg clip	69.99
MH-FNB-V57 7.2v 1500mah Yae nickel hydride	49.99
MH-FNB-58LI 1200mah li-polymer; Yae VX5R	59.99
MH-FNB-72 9.6v 1700mah Yae nickel hydride	59.99
MH-PB-8 12v 1300mah Kenwood nickel hydride	62.99
MH-PB-17 12v 1300mah Kenwood nickel hydride	69.99
MH-PB-18 7.2v 1300mah Ken nick hyd; wall cgr only	49.99
MH-PB-32 6v 1000mah Kenwood nickel hydride	47.99
MH-PB-34 9.6v 1000mah Kenwood nickel hydride	57.99
MH-PB-39 9.6v 1050 mah Ken nickel hyd/clip	59.99
MH-PB-39H 6v 1800mah Ken nickel hyd/clip	59.99
MH-PB-42LI 1800mah li-polymer; Ken THF6A	69.99
MH-800K 500mw spkr/mic w/clip; Kenwood	19.99
MH-800S 500mw spkr/mic/clip; Ali/Ico/Sta/Yae	19.99
MH-800Y 500mw spkr/mic; Yae FT50/VX1R	24.99

MALDOL (MAL)

AH-14 20m telescoping ant w/BNC; FT-817.D	$ 39.99
AH-28 10m telescoping ant w/BNC; FT-817.D	29.99

Maldol - continued

	AES Price
AH-C14 20m loading coil only w/BNC; FT-817 D	22.99
AH-C21 15m loading coil only w/BNC; FT-817 D	22.99
AH-C28 10m loading coil only w/BNC; FT-817 D	22.99
AH-R Telescoping whip; AH-C7/14/21/28 . D	17.99
AH-W100RX 70-900MHz 40" tele BNC rcv ant	32.99
AS-20 2m/440 8.5" superflex SMA antenna...	26.99
AS-25 2m/440 1" SMA antenna	19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant	29.99
AX-50 2m/440 0/5db 21" mobile antenna	49.99
AX-75 2m/440 3.2/5.7db 30" mobile ant	59.99
AX-95 2m/440 3.3/5.8db 38" mobile ant	66.99
EM-B80 Small trunk/hatch/van door lip mt ..	25.99
EM-5M Sm tnk/hatch mt (EM-B80) w/16.5'cbl	59.99
EX-104B 2m/440 black 0/2.15db 15" mob ...	44.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO	44.99
EX-107RB 2m/440 black 2.6/4.9db 29" mob	56.99
EX-107RBNMO 2m/440 blk 2.6/4.9db 29" NMO	56.99
EX-510B 6m/2m/440 blk 0/2.15/5.5db 37" mob	66.99
EX-510BNMO 6m/2m/440 blk 0/2.15/5.5db 37" NMO	66.99
FVS-50 Dlx 2-step 16' 9" cable w/UHF connects D	9.99
HMC-6S 20/15/10/6/2m/440 66" mobile ant	159.99
HMC-7C 40m loading coil for HMC-6S	34.99
HMC-35C 80/75m loading coil for HMC-6S	39.99
HVU-8 80/40/20/15/10/6/2m 8.6' vert w/radials	319.99
MH-209 2m/440 3" BNC duck	23.99
MH-209SMA 2m/440 3" SMA duck	23.99
MH-510 6m/2m/440 0/0/3.2db 20.75" SMA duck	37.99
MH-511 6m/2m/440 4" SMA duck	33.99
MH-610 2m/220/440 0/1.8/3.2db 14" SMA duck	49.99
MK-30H Motorized tnk lip/hatch/van door mt	109.99
MK-RR Roof rack bracket for MK-30H	19.99
PRM-T Large trunk/hatch/van door lip mt	33.99
SHG-140B 2m 4.1db 56" mobile antenna ...D	19.99
SHG-140BNMO 2m 4.1db 56" NMO mob ant D	19.99

MEADOW RIDGE (CRO)

SOLID COPPERWELD ANTENNA WIRE

AN-122 100 feet No. 12	$ 39.99
AN-123 150 feet No. 12	49.99
AN-124 250 feet No. 12	79.99
AN-126 500 feet No. 12	139.99
AN-128 1000 feet No. 12	239.99
AN-181 250 feet No. 18	24.99
AN-182 500 feet No. 18	39.99

MIDLAND (MID)

18-258 On glass mount mobile CB antenna .	$ 19.99
21-406 Deluxe mobile speaker w/3.5mm plug	22.99
74-250C SAME handheld WX/hazard alert radio	49.99
WR-300 AM/FM/SAME WX/hazard alert radio/ps	59.99
AVP-5 Accs;bat/cgr/dcadpt/acadapt/headset/mt; NT-1 D	14.99
GXT-650VP4 22ch 5w GMRS/FRS hh/batts D,pair	79.99
LXT-210VP 22ch 2w GMRS/FRS hh/batts D.pair	39.99

Miracle Antenna (MIA)

Ducker IL In-line HF rcv tuner; HH//QRP xmit	$139.99
Miracle Whip 3.5-450MHz 57" QRP ant/tuner	139.99

MIRAGE (MIR)

A-1015G 50-52 FM/SSB 10/150w amp/preamp	$359.99
B-34 2m FM 2/35w amplifier; no mob bkt	99.99
B-34G 2m FM/SSB 2/35w amp/preamp	119.99
B-310G 2m FM/SSB 4/100w amp/preamp	219.99
B-320G 2m FM/SSB 50/200w amp/preamp ..	459.99
B-1018G 2m FM/SSB 10/160w amp/preamp	369.99
B-2518G 2m FM/SSB 25/160w amp/preamp	299.99
B-2530G 2m FM/SSB 25/300w amp/preamp	679.99
B-5018G 2m FM/SSB 50/160w amp/preamp	299.99
B-5030G 2m FM/SSB 50/300w amp/preamp ..	669.99
BD-35 2m/440 4/45//4/35w HT amp	169.99
B-24G 5/50w 2m HT dock boost amp/pre	109.99
MI-1 Ico 2G/02/2/23 adapter; B24G/BD25 D	.69

Mirage - continued

	AES Price
MI-3 Ico W21AT/X21AT adapt; B24G/BD25 Δ	4.99
MK-1 Ken 25/26/75/77 adapt; B24G/BD25 Δ	.29
MK-2 Ken 22/79 adapter; B24G/BD25 ....Δ	4.99
MY-2 Yae 26/415/530 adapt; B24G/BD25 Δ	.99
C-22G 220 FM/SSB 2/20w amp/preamp ....Δ	149.99
C-1022G 220 FM/SSB 10/220w amp/preamp	699.99
C-2512G 220 FM/SSB 25/120w amp/preamp	309.99
D-15N 430 FM/SSB/ATV 2/15w type N amp Δ	149.99
D-26N 440 FM/SSB 2/60w type N amplifier Δ	229.99
D-1010N 440 FM/SSB 10/100w type N amp .	379.99
D-3010N 440 FM/SSB 30/100w type N amp .	349.99
D-1010-ATVN 430 ATV 10/52w type N amp ...	399.99
RC-1* Remote control head w/18' cable	49.99
*Not for B-23/C-22/D-26	
RC-2 Rem ctl head/cable; B-XX18G	49.99

The following Repeater Amplifers are Special Order. Specify SO-239 or type N connectors.

A-1015NR 6m FM 2/110w type N amplifier ...	$549.99
A-1015R 6m FM 2/110w SO-239 amplifier ...	529.99
C-211NR 220 FM .5/80w type N amplifier	619.99
C-211R 220 FM .5/80w SO-239 amplifier	599.99
C-1012NR 220 FM 5/90w type N amplifier ...	619.99
C-1012R 220 FM 5/90w SO-239 amplifier	599.99
C-2512NR 220 FM 15/90w type N amplifier .	589.99
C-2512R 220 FM 15/90w SO-239 amplifier ..	569.99
D-1010NR 440 FM 4/80w type N amplifier ...	629.99
D-1010-ATVN-R 430 ATV 4/80w type N amp .	629.99
D-3010NR 440 FM 12/80w type N amplifier .	599.99

PREAMPS

KP-1/6M 6m in shack N preamp	$139.99
KP-1/2M 2m in shack N preamp	139.99
KP-1/440 440 in shack N preamp	139.99
KP-2/6M 6m mast mount N preamp	184.99
KP-2/2M 2m mast mount N preamp	184.99
KP-2/440 440 mast mount N preamp	184.99

NCG (NCG)

Power Pocket 12v 2AH lead acid belt batt/cgr	$ 66.99

NCS (NCS)

NCS-3230 Multi-receiver receive console ...Δ	$299.99
NCS-1514 Wall power supply; NCS-3230 Δ	19.99
NCS-P2PH35-A Multi-rx/spkr out set 6 cbls Δ	19.99
NCS-MRx2MS-A 3240 & 3230 interface kit . Δ	39.99
NCS-3240 Multi-switcher audio device .....Δ	249.99
NCS-1512 Wall power supply; NCS-3240 Δ	9.99
NCS-LoZNC Unterminated interface cbl . Δ	14.99
NCS-LoZ8PI-I Icom 8-pin interface cbl ..Δ	19.99
NCS-LoZRJ45-I Icom RJ-45 interface cbl Δ	17.99
NCS-LoZ8PI-K Kenwood 8-pin interface cbl Δ	19.99
NCS-LoZRJ45-K Ken RJ-45 interface cbl ... Δ	17.99
NCS-LoZ8PI-Y Yaesu 8-pin interface cbl Δ	19.99
NCS-LoZRJ12-Y Yaesu RJ-12 interface cbl Δ	17.99
NCS-LoZRJ45-Y Yaesu RJ-45 interface cbl Δ	17.99

Night Owl Optics (NOO)

NOCA-42 Camera adapter .....Δ	$ 6.99

NORCOMM (NOR)

NC-101 Tunable CTCSS encoder	$ 21.99
NC-104 Programmable CTCSS encoder	26.99
NC-106 Prog CTCSS encoder/decoder	67.99
NC-401 Sub-miniature DTMF decoder	76.99

Oregon Scientific (ORE)

WMR-112A Wireless weather station .....D	$ 89.99

OUTBACKER (OUT)

OB-8 75-10m 300w PEP 6' 8-band mobile ant	$319.99
OB-8HP 75-10m 500w PEP 6' 8-band mob ant	329.99
OB-S8 75-10m 300w PEP split ant/storage bag	329.99
OB-8TRI 75-10m 300w PEP 3pc 6' port ant/bag	339.99

Outbacker - continued

	AES Price
Joey 80-2m 20w antenna w/counterpoise	299.99
MicroMount Tripod system for Joey.....	49.99
OB-M 75/40/20/17/10m/HF marine 300w PEP 6'	449.99
Perth 75-10m 150w PEP 7.5' mobile ant	329.99
Perth Plus 75-10m+6m/2m 150w PEP 6' mob ant	329.99
Stealth Plus 75-10m+6/2m 100w PEP 4' ant	319.99
Outreach 160-10m 300w PEP 12' antenna ...	419.99
Outreach 500 80-6m 600w PEP 12' antenna	449.99
Outpost Base tripod mtg system for mobile ant	275.99
OB-SB ⅜-24 spring and ½" hole base	129.99
Diamond K-400-3/8C ⅜-24 trunk mt, 6' coax	73.99
Diamond C-110 10' ext cable; K-400-3/8C	15.99

PDK Technologies (PDK)

LiteFlare 3-Pk 3-pack red LiteFlare/carry bag	$ 29.99

Palomar Engineers (PAL)

PT-340 Tuner-Tuner (use with ant tuner) ....D	$ 99.99
RFI-4 RF interference kit	25.99
VLF-A VLF converter; 10-500 KHz to 80m ...D	89.99
VLF-S VLF conv; 10-500 KHz to 4-4.5 MHz .D	99.99

PALSTAR (PLS)

AT-1KP 1200w PEP antenna tuner	$429.99
AT-2K 2000w PEP antenna tuner	529.99
AT-4K 2.5kw T-match edgewound roller ind tuner	895.99
AT-5K 3.5kw T-match ceramic roller ind tuner	1195.99
AT-1500CV 1500w PEP antenna tuner .....D	399.99
AT-1500DT 1500w PEP antenna tuner	495.99
AT-AUTO 1500w automatic antenna tuner	1295.99
BT-1500A 1500w PEP antenna tuner	695.99
DL-2K 2000w 30MHz dummy load w/fan	199.99
ZM-30 1-30MHz antenna analyzer	399.99

PAR (PAR)

SK-432 Type N stacking harness; OA-432 ....Δ	$ 2.99

PENETROX (PEN)

Penetrox A 4 oz tube for antennas	$ 14.99

POLYPHASER (PLY)

LIGHTNING PROTECTION

IS-50NX-C2 125-1000 375/125/50w N flange	$ 62.99
IS-50UX-C0 1.5-400 2kw/375/125w flange mt	66.99
IS-50UX-C1 50-700MHz 375/125w flange mt	66.99
IS-B50LN-C2 125-1000 375/125/50w N bulkhead	69.99
IS-B50LU-C0 1.5-400 2kw/375/125w bulkhead	69.99
IS-B50LU-C1 50-700 375/125w bulkhead mt	69.99
FB Adapter Flange to bulkhead mt adapter Δ	.69
PLDO-120US15A 120v 15A power protector Δ	149.99
PLDO-120US20A 120v 20A power protector .	199.99
IS-RCT 8-wire rotor control protector	129.99
J-1 ½" to 1⅓" bronze transition clamp	15.99
J-2 1½" to 2¼" bronze transition clamp Δ	2.99
IX-1TW Single phone line protector .....D	59.99
CS112-25 25' 1½" copper strap	49.99
CS112-50 50' 1½" copper strap	89.99
CS112-100 100' 1½" copper strap	169.99
CS3-25 25' 3" copper strap	99.99
CS3-50 50' 3" copper strap	129.99
CU-SPGP Copper single point ground panel .	179.99
TK-2 1½" strap to Rohn twr corrosion free clamp	8.99
TK-3 1½" strap-2¼" to 3¾" mast corr free clamp Δ	1.99
1C-112S #6-#1 wire to 1½" strap clamp bond	33.99
58R-112S 1½" strap to ⅝" gnd rod clamp bond	32.99
UNI-KIT 2TC Gnd kit; galv twr leg to copper Δ	14.99
UNI-KIT 2CC Ground kit; coax to copper	49.99
CCK Copper cleaning kit; 4 oz can, brush	28.99
LPGS Lightning Protection/Grounding book ...	20.00

AES Price

POWERWERX (POW)

APO-3-PP	Voltage/time controlled power switch	$ 59.99
BT-Junior	Battery Tender Junior charging sys	29.99
Cig-2-OEM-5-15A	5' 15A cig plug to T-male conn	14.99
Cig-2-PP-5-15A	5' 15A cig plug to Powerpole	14.99
CT-2	Crimp tool for 15/30/75A Powerpole	12.99
PP-2-OEM-5	5' Powerpole to T-male conn	14.99
PP-45-2Ring-10G	6' Powerpole to ring terms	13.99
PP-ATC-10-40A	10ga fuseholder/45A Powerpoles	14.99
PP-ATC-12-15A	12ga fuseholder/30A Powerpoles	12.99
PP-RB-30-10	10-pair 30A Powerpole connectors	9.99
PP-RB-30-25	25-pair 30A Powerpole connectors	19.99
PP-RB-45-10	10-pair 45A Powerpole connectors	14.99
PP-RB-45-25	25-pair 45A Powerpole connectors	29.99
PP-RB-75-8-2	2-pr 75A Powerpole connectors/8 ga	7.99
PS-4	4-terminal 45A Powerpole splitter	14.99
PS-4 Plus	4-terminal 45A "X" Powerpole splitter	14.99
PS-6AA	8-terminal 45A Powerpole tap splitter	31.99
PS-8	8-terminal 45A Powerpole splitter	24.99
RB-12-25	25' 12ga red/black DC pwr zip cord	22.99
RB-14-25	25' 14ga red/black DC pwr zip cord	14.99
Ring-ATC-10-40A	10g fusehold/45A Powerpole/ring	14.99
Ring-ATC-12-15A	12g fusehold/30A Powerpole/ring	12.99
SOC-PP-1-15A	15A cig socket to Powerpole	14.99
Watt-BLU-PP-C	Watt's Up meter w/Powerpoles	59.99

PREMIER (PRE)

AL-800	2m/440 34" BNC rubber duck ant	$ 29.99
RD-2	2m/440 2" BNC duck D	14.99
RD-2SMA	2m/440 2" SMA duck D	15.99
RD-8	2m/440/900 6.5" BNC duck	14.99
RD-9	2m/440/900 7" BNC duck	18.99
RD-78	2m/440/900 15" BNC whip	19.99
RD-98	2m/440 17" BNC whip D	24.99
RD-98SMA	2m/440 17" SMA whip	27.99
SPM-100	Spkr/mic; ADI/Alinco/Icom/Yaesu	32.99
SPM-101	Spkr/mic for Kenwood	32.99
SPM-102	Spkr/mic; Yaesu FT-50R/VX-1R/5R	32.99
SPM-400A	Boom/mic; ADI/Alinco/Icom/Yaesu	41.99
SPM-402A	Boom mic; Yae FT-50R/VX-1R/5R	41.99

PRO AM by VALOR (VAL)

ASTATIC MOUNTS

AST-MMK	Heavy duty 3/8-24 magnet mt kit	$ 29.99
AST-NMO	NMO mounting adapter	6.99
AST-SO239	SO-239 mounting adapter	6.99
AST-TMK	Universal 3/8-24 trunk mount kit	29.99
AST-NMO	NMO mounting adapter	6.99
AST-SO239	SO-239 mounting adapter	6.99

VHF/UHF ANTENNAS ONLY (No Mounts)

M0144-440	2m/440 antenna only	$ 19.99
PAQA	136-515 MHz ¼ wave antenna only	16.99
PHB-144	2m ⅝ wave 3 db antenna only	29.99

MOUNTS ONLY FOR ABOVE ANTENNAS

PAMB	Black low profile NMO mag mt w/coax	$ 24.99
PAN38	⅜-24 antenna to NMO mt adapter	16.99
PAS	¾" NMO mount w/coax D	18.99
PASMO	¾" NMO mt only (no coax)	7.99
PAT-2B	Black no hole NMO trunk mt w/coax	15.99

OTHER VHF/UHF ANTENNAS & MOUNTS

100ADN	SO-239 horizontal mirror mt	$ 7.99
101ADN	HD alum mirror mt w/SO-239	7.99
105ADT	Heavy duty ⅜" mount assembly	4.99
105HDT	Heavy duty mount assembly	3.99
120	Sawtooth hump mt for mobile radios	10.99
301	4" low profile ⅜-24 magnet mt w/coax	16.99
401	5" low profile ⅜-24 magnet mt w/coax	19.99
407-18	18' RG59 harness PL259-PL259 Δ	6.99
GM-144	2m 2.5db on glass antenna D	39.99
GM-270	2m/440 2.6/6.3db on glass ant D	49.99
TGMKD	On glass replacement mtg kit Δ	6.99

Pro Am - continued

AES Price

MM-3401	Maxi-mag mt ⅜-24/NMO kit (3-5" mags)	59.99
SS-100MOT	3-way NMO mirror mt w/coax	19.99
CX-144	2m ⅝ wave 3db ⅜-24 whip	19.99
HWTGSBNC	112-1.2GHz on-glass scanner ant/BNC	36.99
MM-270B	2m/440 micro mag mt ant w/BNC	19.99
PMM-3B	Micro mag mt monitor ant w/BNC	19.99

MOBILE HF ANTENNAS (No Mounts)

PHF-160B	160m 8' ⅜-24 whip	$ 69.99
PHF-75B	75m 8' ⅜-24 whip (4' coil, 4' whip)	24.99
PHF-40B	40m 8' ⅜-24 whip (4' coil, 4' whip)	24.99
PHF-30B	30m 8' ⅜-24 whip (4' coil, 4' whip) D	24.99
PHF-20B	20m 8' ⅜-24 whip (4' coil, 4' whip)	24.99
PHF-17B	17m 8' ⅜-24 whip (4' coil, 4' whip) D	24.99
PHF-15B	15m 8' ⅜-24 whip (4' coil, 4' whip) D	24.99
PHF-12B	12m 8' ⅜-24 whip (4' coil, 4' whip)	24.99
PHF-10B	10m 8' ⅜-24 whip (4' coil, 4' whip)	24.99
PHF-6B	6m 58" ⅜-24 whip	20.99
103S	Quick disconnect/5 twist lock connectors	24.99

ASTATIC MOBILE HF ANTENNA (No Mount)

AST-6BTV	75/40/20/15/10/6m mobile ant D	$ 99.99
AST-GPK	3/8-24 mtg/ground plane kit Δ	24.99

QRZ (WAL)

Ham QRZ	US & international calls plus programs	$ 24.99

QSL Card Holders (ART)

QSL Card Holders	pack of 3, 20 cards/holder	$ 18.99

RCA (RCA)

108/FC60	F-56 connector w/o-ring for RG-6 Δ	$ .29
ACAC-5960	TV coax hex crimp tool Δ	6.99
RP-7887	Super Radio AM/FM portable Rcvr	59.99

RF PARTS (See Diamond)

RT SYSTEMS (RTS)

RTS-03	USB to serial adapter	$ 22.99

RADIOWAVZ (RAD)

160MC/BALUN	250' 160m dipole w/1:1 balun	$ 79.99
80MC/BALUN	130' 80m dipole w/1:1 balun	59.99
40MC/BALUN	66' 40m dipole w/1:1 balun	47.99
30MC/BALUN	46' 30m dipole w/1:1 balun	47.99
20MC/BALUN	32' 20m dipole w/1:1 balun	39.99
17MC/BALUN	26' 17m dipole w/1:1 balun	37.99
15MC/BALUN	22' 15m dipole w/1:1 balun	37.99
12MC/BALUN	19' 12m dipole w/1:1 balun	37.99
10MC/BALUN	17' 10m dipole w/1:1 balun	37.99
160M-DBZ	265' 160m double bazooka ant	129.99
75M-DBZ	127' 75m double bazooka ant	79.99
40M-DBZ	70' 40m double bazooka ant	59.99
DX-160	246' 160m windom antenna	132.99
DX-80	136' 80m windom antenna	79.99
DX-40	67' 40m windom antenna	59.99
B-11A	1:1 160-6m voltage balun	21.99
B-11ISO	1:1 160-6m isolation balun	29.99
B-14VA	4:1 160-10m voltage balun	25.99
B-19TX	9:1 160-10m isolation balun	29.99
DPH	Dipole head w/eye hook	9.99
EFT-110	2.8-30 MHz 110' end fed inverted V	279.99
FTD-20	7-30 MHz 20' folded dipole	250.99
FTD-45	5-30 MHz 45' folded dipole	279.99
FTD-65	3-30 MHz 65' folded dipole	279.99
FTD-90	1.8-30 MHz 90' folded dipole	289.99
FT-DMK	Mtg kit; folder dipole w/3 pole installation	45.99
G5RV	102' G5RV antenna, 32' tall	39.99
G5RV JR	51' G5RV antenna, 14' tall	28.99
G5RV LITE	68' G5RV antenna, 32' tall	48.99
G5RV MAX	204' G5RV antenna, 56' tall	75.99
J8X-U1	1.5' RG-8X coax/silver teflon PL259s	9.99
J8X-U3	3' RG-8X coax/silver teflon PL259s	11.99
J8X-U6	6' RG-8X coax/silver teflon PL259s	14.99

Radiowavz - continued

AES Price

J8X-U12	12' RG-8X coax/silver teflon PL259s	22.99
J8X-U25	25' RG-8X coax/silver teflon PL259s	29.99
J8X-U50	50' RG-8X coax/silver teflon PL259s	37.99
J8X-U75	75' RG-8X coax/silver teflon PL259s	49.99
J8X-U1X	100' RG-8X coax/silver teflon PL259s	63.99
J213-U1	1.5' RG-213 coax/silver teflon PL259s	14.99
J213-U3	3' RG-213 coax/silver teflon PL259s	16.99
J213-U6	6' RG-213 coax/silver teflon PL259s	17.99
J213-U12	12' RG-213 coax/silver teflon PL259s	24.99
J213-U25	25' RG-213 coax/silver teflon PL259s	34.99
J213-U50	50' RG-213 coax/silver teflon PL259s	55.99
J213-U75	75' RG-213 coax/silver teflon PL259s	73.99
J213-U1X	100' RG-213 coax/silver teflon PL259s	94.99
J213-U12X	125' RG-213 coax/silver teflon PL259s	114.99
J213-U15X	150' RG-213 coax/silver teflon PL259s	136.99
TL308-100	100 ft 18ga 300 ohm twinlead	24.99
TL458-100	100 ft 18ga 450 ohm ladderline	24.99
TL454-100	100 ft 14ga 450 ohm ladderline	54.99

SGC (SGC)

52-96	SG-500 1.8-24MHz 12v 500w PEP amp	1299.99
51-82	Fan kit; continuous duty xmit SG500	220.99
54-14	SG-230 200w 1.8-30 MHz 12v Smartuner	499.99
54-15	SG-235 500w 1.8-30MHz 12v Smartuner	1079.99
54-18	SG-237 100w PEP HF+6m mini Smartuner	299.99
54-22	SG-239 200w Smartuner	195.99
54-63	SmartLock; SG230/237/239 after 9/1/93	60.99
54-25	MAC-200 Smartuner/ant switch combo	265.99
55-28	SG-307 1.8-60 7' mobile whip & mt	390.99
70-14	ADSP2 DSP noise reduction speaker	160.99

SAMLEX (SAM)

FCP-1000	1A ps w/cigarette lighter socket	$ 7.99
SEC-1223	23A switching power supply w/fan	99.99
SEC-1235	30A switching ps w/fan, 35A surge	119.99
SEC-1235M	30A switch ps/fan/meters, 35A surge	139.99
SI-175HP	175w 12vdc-115vac inverter	29.99
SI-400HP	400w 12vdc-115vac inverter	49.99
SPS-1204UL	3.5A switching ps+cig socket	29.99

SANGEAN (SAN)

ATS-404	AM/FM/SW portable receiver w/case	$ 79.99
ATS-505P	AM/FM/SW portable receiver	129.99
ATS-606AP	AM/FM/shortwave portable receiver	139.99
ATS-909	AM/FM/shortwave portable Rcvr	249.99
DT-200VX	AM/FM/VHF TV sound portable Rcvr Δ	64.99
HDR-1	AM/FM/HD table-top radio	199.99
HDT-1	HD radio component tuner	199.99
PR-D2	AM/FM portable dark grain "Q" radio Δ	69.99
PT-50	AM/FM/SW portable receiver Δ	24.99
PT-80	Deluxe AM/FM/SW portable receiver	159.99
RCR-2	AM/FM atomic clock radio	69.99
WFR-20	Wi-Fi internet radio & media player	279.99
WR-1	AM/FM wooden cabinet receiver	99.99
ANT-60	Portable wind-up SWL antenna	13.99

SEQUOIA (SEQ)

POCKET PC REF	Pocket PC reference book	$ 15.99
POCKET REF	Pocket reference book	12.99
WinRef 98-95	Windows pocket reference book Δ	1.99

SHAKESPEARE (SHA)

396-1	3db 5' VHF marine ant, less mount	$ 89.99
5101	6db 8' VHF marine ant, less mount	69.99
5202	6db 8' VHF mar ant/chrome ferrule, less mt	109.99
5206-C	Econo 8' VHF mar ant/chrome ferrule, no mt	59.99
495	White plastic lift & lay mount D	.99
4187	Stainless steel ratchet mount	39.99
5215	3db 36" sailboat VHF marine ant w/mt	49.99
420	3db 5' VHF marine ant w/fold-down mt	84.99
PL-259-CP-G	Solderless PL-259; RG-8X/58	7.99
PL-258-CP-G	Solderless splice; RG-8X/58	11.99

AES Price

Smiley Antenna (SMI)

270A	2m/220/440 gain telescopic whip	$ 19.99
270A/SMA	2m/220/440 gain tele whip w/SMA	19.99
5/8 SLD-2	2m ⅝ Slim Duck rubber ant	19.99
5/8 SLD-2/SMA	2m ⅝ Slim Duck rubber ant/SMA	19.99
5/8 SLD-220	220 ⅝ Slim Duck rubber ant	19.99
5/8 SLD-440	440 ⅝ Slim Duck rubber ant	19.99
5/8 SLD-2 Combo	2m ⅝ duck & stubby ant	29.99
5/8 SLD-220 Combo	220 ⅝ duck & stubby ant	29.99
5/8 SLD-440 Combo	440 ⅝ duck & stubby ant	29.99
FLX 1/2 WAV-2M	½ wv 2m BNC whip/flex coil	25.99
RD-2	2m rubber duck antenna	15.99
RD-220	220 rubber duck antenna	15.99
RDMD-2	2m mini rubber duck antenna	15.99
RDMD-440	440 mini rubber duck antenna	15.99
RDS-2	2m stubby rubber duck antenna	15.99
RDS-220	220 stubby rubber duck antenna	15.99
RDS-440	440 stubby rubber duck antenna	15.99
SD-2	2m Slim Duck thin rubber antenna	15.99
SD-220	220 Slim Duck thin rubber antenna	15.99
SL-440	440 slimline type duck	15.99
SS-II	Super Stick 2m ⅝ wv telescopic ant	19.99
SS-III	Super Stick 220 ⅝ wv telescopic ant	19.99
SS-IV	Super Stick 440 ⅝ wv telescopic ant	19.99
SS-II/Combo	2m ⅝ wv telescopic & stubby ant	29.99
SS-III/Combo	220 ⅝ wv telescopic & stubby ant	29.99
SS-IV/Combo	440 ⅝ wv telescopic & stubby ant	29.99
TAQ-2	2m ¼ wave stainless whip	10.99
TAQ-220	220 ¼ wave stainless whip	10.99
TAQ-440	440 ¼ wave stainless whip	10.99
TS	Thin Stick 2m/220 ⅜ wave telescopic whip	16.99

SOLARCON (SOL)

A-99	10m/CB 17' 8" fiberglass base ant	$ 79.99
GPK-1	Ground plane radial kit	59.99

SONY SHORTWAVE (SON)

ICF-SW11	AM/FM/SW compact receiver .....D	$ 49.99
ICF-SW12	AM/FM/SW travel Rcvr/world clock .D	69.99
ICF-SW35	AM/FM/SW portable receiver .....D	89.99
ICF-SW7600GR	AM/FM/SW portable receiver	159.99

STICKY PAD (STI)

13810	7¼" x 4⅜" sticky pad for handhelds, etc	$ 5.99
13820	8¾" x 6⅞" sticky pad for larger items	9.99

Synthetic Textiles (SYN)

100'	3/32" black double braided rope	$ 9.99
100' 3/16	3/16" black double braided rope	18.99
100' 5/16	5/16" black double braided rope	26.99
350'	3/16" black double braided rope	49.99

Terk Technologies (TER)

Advantage	Indoor passive fine-tunable AM ant	$ 49.99
HDTV-I	Indoor UHF/VHF HDTV antenna	39.99
LF-30S	2.4GHz wireless vid/aud sys/rem features	99.99
LF-IRX	Remote control extender	39.99
MOD-41	4-input video switch/converter	39.99
PI-B	Indoor AM/amplified FM loop antenna	49.99
Tower	Indoor AM/amplified FM tower antenna	24.99
TV-55	Indoor/outdoor TV antenna	99.99
VR-1	TV volume regulator	39.99
VS4-MOD	4-input remote video switch/converter D	19.99
VS4-MOD+	4-input remote video switch/converter D	24.99

Times Microwave (TMS)

LMR-400	Standard ⅜" coax cable .....per ft.	$ .88
LMR-400	.....500 ft. Roll	339.99
LMR-400-DB	Watertight ⅜" coax cable per ft.	1.00
LMR-400-DB	.....500 ft. Roll	389.99
LMR-400-UF	UltraFlex ⅜" coax cable ...per ft.	1.33
LMR-400-UF	.....500 ft. Roll	529.99

AES Price

TIMEWAVE (TIM)

ANC-4	RF noise canceller	$209.99
AC-1	12vdc 600 ma adapter	15.99
AC-5	12vdc 1.7A desktop ps	22.99
DSP-599zx	All-mode DSP noise filter	436.99
AC-5	12vdc 1.7A desktop ps	22.99
PK-96/100K	9600 baud controller/128K RAM	219.99
(CSS) **PKTerm for Windows**	Soft; PK-96/232	99.99
AC-1	12vdc 600 ma adapter	15.99
AC-5	12vdc 1.7A desktop ps	22.99
PK-232/PSK	Multimode controller w/sound card	531.99
PK-232/USB	Multimode controller/sound card/USB	549.99
(CSS) **PKTerm for Windows**	Soft; PK-96/232	99.99
AC-5	12vdc 1.7A desktop ps	22.99
TZ-900N	.2-55MHz type N antenna analyzer	999.99
TZ-900S	.2-55MHz SO239 antenna analyzer	999.99

TRIPP LITE (TRI)

ISOBAR-8 ULTRA	8 outlet surge suppress/LEDs	$ 79.99
SUPER-7	7 outlet surge suppressor	19.99
SUPER-7+TEL	7 outlet/fax modem surge	29.99

TUBES (TUB)

6146B	Tube	$ 29.99
12BY7A	Tube	34.99
3-500ZG-RFP	High dissipation tube (3-500Z)	209.99
572B	Tube	49.99
811A	Tube	19.99

US TOWER (UST)

FREE STANDING CRANK-UPS (not for T²X)

TX-438	38' crank-up tower .....T	1649.99
TX-455	55' crank-up tower .....T	2269.99
TX-472	72' crank-up tower .....T	3729.99
TX-472MDP	72' crank-up w/motor drive .....T	5999.99
TX-489MDPL	89' crank-up w/motor drive ...T	9729.99

FREE STANDING HD CRANK-UP TOWERS

HDX-538	38' crank-up tower .....T	1959.99
HDX-555	55' crank-up tower .....T	3419.99
HDX-572MDPL	72' crank-up w/motor drive .T	8919.99
HDX-589MDPL	89' crank-up w/motor drive .T	11669.99
HDX-689MDPL	89' HD crank-up w/motor ....T	22549.99
HDX-5106MDPL	106' HD crank-up w/motor T	24529.99

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS	33' crank-up tower .....T	1759.99
TMM-433HD	33' HD crank-up tower .....T	2119.99
TMM-541SS	41' crank-up tower .....T	2299.99

ACCESSORIES FOR CRANK-UP TOWERS

CX-2	Coax arms (2) for 2-section tower	$ 80.99
CX-3	Coax arms (3) for 3-section tower	111.99
CX-4	Coax arms (4) for 4-section tower	164.99
CX-5	Coax arms (5) for 5-section tower	224.99
CX-6	Coax arms (6) for 6-section tower	284.99
HDP	Service platform .....T	1619.99
IV-16	Inverted vee arm for MA's	60.99
M-5	2" OD 5' mast extension for MA's	60.99
M-10	2" OD 10' mast .....T	112.99
M-15	2" OD 15' mast .....T	154.99
M-15R	2" OD 15' reinforced mast .....T	234.99
M-20	2" OD 20' mast .....T	199.99
M-20R	2" OD 20' reinforced mast .....T	299.99
CM-20	2" OD 20' cromolly mast .....T	CALL
MD-75	Heavy duty 1 HP motor drive .....T	1319.99
MDP-750*	Pull-down drive; TX-472/HDX-555 T	2049.99
MDPL-1000*	Pull-down drive; HDX-572 .....T	2779.99

*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately

MRF	Mast raising fixture	389.99
MCL-100	Limit switch package	629.99
RMC-1000	Remote control w/limit switch	1319.99

US Tower - continued

AES Price

TRX-80	Raising fixture; TX-438/455;HDX-538/555 T	599.99
TRX-80HD	Raising fixture;TX-472/489;HDX-572/589 T	799.99
TRX-100HD	Raising fixture; HDX-689/5106 T	1079.99
TB-2US	Thrust bearing; 2" mast w/2 flange holes	144.99

MA-SERIES TUBULAR TOWERS

MA-40	40' crank-up tubular tower .....T	1299.99
MA-550	55' crank-up tubular tower .....T	2019.99
MA-550MDP	55' crank-up tubular w/motor T	3859.99
MA-770*	70' crank-up tubular tower .....T	3329.99
MA-770MDP*	70' crank up tubular w/motor T	5279.99
MA-850*	85' crank-up tubular tower .....T	5159.99
MA-850MDP*	85' crank-up tubular w/motor T	7099.99

*Requires MAB or MARB-series base

MA-SERIES ACCESSORIES

CX-2M	Coax arms (2) for MA-40	$ 85.99
CX-3M	Coax arms (3) for MA-550	119.99
CX-4M	Coax arms (4) for MA-770	199.99
CX-5M	Coax arms (5) for MA-850	234.99
MAB-40	Hinged base for MA-40 .....T	489.99
MAB-550	Hinged base for MA-550 .....T	579.99
MAB-770	Hinged base for MA-770 .....T	699.99
MAB-850	Hinged base for MA-850 .....T	849.99
MAF-40	Raising fixture for MA-40	299.99
MAF-550	Raising fixture for MA-550 .....T	409.99
MAF-770	Raising fixture for MA-770 .....T	519.99
MAF-850	Raising fixture for MA-850 .....T	639.99
MARB-40	Rotor base accessory for MA-40 ..T	739.99
MARB-550	Rotor base accessory for MA-550 T	849.99
MARB-770	Rotor base accessory for MA-770 T	1029.99
MARB-850	Rotor base accessory for MA-850 T	1219.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Woodlake, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)

UNIDEN (UNI)

PC-68 Elite	AM Mobile CB w/WX alert	$ 99.99
PC-68LTW	AM Mobile CB w/WX alert	79.99
PC-68XL	AM Mobile CB	74.99
PC-78 Elite	AM Mobile CB w/WX alert	119.99
PC-78LTW	AM Mobile CB w/WX alert	99.99
PC-78XL	AM Mobile CB	94.99
PRO-510XL	AM Mobile CB	39.99
PRO-520XL	AM Mobile CB	54.99
PRO-538W	AM Mobile CB w/WX	59.99

UNIDEN BEARCAT

BC-340CRS	100 ch scanner w/SAME WX	$ 99.99
BC-350C	100 ch prog/service search w/AC ps	99.99
BC-370CRS	300 ch scanner/800/SAME WX	139.99
BC-898T	500 ch prog scanner/trunking/preprog	209.99
BCD-996T	6000 ch prog/trunk/SAME WX/dig	519.99
BC-RH96	Remote head for BCD-996T	149.99
BCT-8	Preprog warning scan/800/trunk/AC ps	179.99
BCT-15	2500 ch prog scanner/800/trunk	239.99
BC-RH96	Remote head for BCT-15	149.99
BC-72XLT	100 ch pocket scanner	99.99
BC-95XLT	200 ch prog pocket scanner/800	119.99
AD-70	Extra charger .....Δ	10.99
BBTY0356001	Extra battery for BC-296D ...Δ	9.99

Uniden - continued

	AES Price
BP-120 Extra battery; SC180B/SC200 .....Δ	18.99
BP-180 Extra battery for BC-245XLT .....Δ	16.99
BP-200 Extra battery for BC-200XLT .....Δ	26.99
BP-205 Extra battery for BC-100XLT .....Δ	26.99
LC-120 Carrying case; BC230XLT/245XLT ...D	4.99
NC-250D Carrying case for BC-250D/296D Δ	4.99
UA-502 Cig power cord .....Δ	6.99
SC-230 1600+ch pocket/800/SAME WX	199.99
BC-246T 1600+ ch pocket scanner/trunking	219.99
BADG0687001 DC cord	22.99
NC-246T Carrying case	19.99
BCD-396T 3000+ch pocket/trunk/SAME/dig .	519.99
BADG0687001 DC cord	22.99
BC-RH96 Remote head	149.99

MARINE

Atlantis-250 5w VHF marine handheld	$ 99.99
MHS-350 Waterproof 5w VHF marine handheld	149.99
Voyager 5w VHF marine handheld/lith ion batt	169.99
Oceanus-DSC 25w 90 ch VHF marine Xcvr/DSC	139.99
Polaris 25w VHF marine Xcvr w/hailer .....D	89.99
Solara-DSC 25w 90 ch VHF marine Xcvr/DSC	99.99
UM-525 25w VHF marine Xcvr w/hailer	199.99
UM-625C 25w VHF marine Xcvr/color TFT/hailer	299.99

Unified Microsystems (UNM)

VK-64 CW/voice keyer	$229.99
KC-4 CW cable for VK-64 to transceiver	9.99
VKC-8 8-pin audio cable for VK-64 to Xcvr	24.99
XT-4 Small size CW memory keyer	69.99
KC-4 CW cable for XT-4 to transceiver	9.99
W9XT Contest card for IBM PC & compatible Δ	99.99
CCC-8 8pin mic contest card cable semi-kit Δ	29.99

Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower .....T	$373.99
9-30 9 sq ft wind load 30' alum tower .....T	501.99
12-30 12 sq ft wind load 30' alum tower ....T	660.99
21-30 21 sq ft wind load 30' alum tower ....T	785.99
23-30 23 sq ft wind load 30' alum tower ....T	1038.99
35-30 35 sq ft wind load 30' alum tower ....T	1170.99
4-40 4 sq ft wind load 40' alum tower .....T	626.99
7-40 7 sq ft wind load 40' alum tower .....T	786.99
9-40 9 sq ft wind load 40' alum tower .....T	876.99
12-40 12 sq ft wind load 40' alum tower ....T	1038.99
15-40 15 sq ft wind load 40' alum tower ....T	1161.99
21-40 21 sq ft wind load 40' alum tower ....T	1263.99
23-40 23 sq ft wind load 40' alum tower ....T	1518.99
4-50 4 sq ft wind load 50' alum tower .....T	882.99
5-50 5 sq ft wind load 50' alum tower .....T	1003.99
7-50 7 sq ft wind load 50' alum tower .....T	1128.99
9-50 9 sq ft wind load 50' alum tower .....T	1255.99
15-50 15 sq ft wind load 50' alum tower ....T	1640.99
16-50 16 sq ft wind load 50' alum tower ....T	1747.99
4-60 4 sq ft wind load 60' alum tower .....T	1256.99
6-60 6 sq ft wind load 60' alum tower .....T	1540.99
7-60 7 sq ft wind load 60' alum tower .....T	1613.99
9-60 9 sq ft wind load 60' alum tower .....T	1732.99
3-70 3 sq ft wind load 70' alum tower .....T	1638.99
4-70 4 sq ft wind load 70' alum tower .....T	1960.99
6-70 6 sq ft wind load 70' alum tower .....T	2023.99
7-70 7 sq ft wind load 70' alum tower .....T	2088.99
3-80 3 sq ft wind load 80' alum tower .....T	2182.99
4-80 4 sq ft wind load 80' alum tower .....T	2504.99
2-90 2 sq ft wind load 90' alum tower .....T	2596.99
B-14 Base for tower	81.99
B-18 Base for tower	81.99
B-22 Base for tower	124.99
B-26 Base for tower	156.99
Extra **14" stubs** (between base & tower) .set	16.99
Extra **18" stubs** (between base & tower) .set	28.99

Universal - continued

	AES Price
Extra **22" stubs** (between base & tower) .set	46.99
Extra **26" stubs** (between base & tower) .set	46.99
RFM-11 Flat roof mt for guyed tower	53.99
RFM-14 Flat roof mt for guyed tower	53.99
RFM-18 Flat roof mt for guyed tower	84.99
RFM-22 Flat roof mt for guyed tower	113.99
RFM-26 Flat roof mt for guyed tower	151.99
R-11 Rotor mount	37.99
R-14 Rotor mount	57.99
R-18 Rotor mount	75.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top 11" top tower section .....T	126.99
14 Top 14" top tower section .....T	159.99
18 Top 18" top tower section .....T	288.99
14 Taper 14" taper tower section .....T	140.99
18 Taper 18" taper tower section .....T	252.99
22 Taper 22" taper tower section .....T	375.99
26 Taper 26" taper tower section .....T	536.99
11 Straight 11" straight tower section .....T	124.99
14 Straight 14" straight tower section .....T	140.99
18 Straight 18" straight tower section .....T	252.99
22 Straight 22" straight tower section .....T	375.99
26 Straight 26" straight tower section .....T	536.99
HD35-40 35 sq ft wind load 40' alum tower T	1746.99
HD21-50 21 sq ft wind load 50' alum tower T	1866.99
HD9-60 9 sq ft wind load 60' alum tower ...T	1961.99
HD16-60 16 sq ft wind load 60' alum tower T	2345.99
HD21-60 21 sq ft wind load 60' alum tower T	2473.99
HD8-70 8 sq ft wind load 70' alum tower ...T	2213.99
HD12-70 12 sq ft wind load 70' alum tower T	2723.99
HD17-70 17 sq ft wind load 70' alum tower T	2952.99
HD21-70 21 sq ft wind load 70' alum tower T	3078.99
HD8-80 8 sq ft wind load 80' alum tower ...T	2820.99
HD9-80 9 sq ft wind load 80' alum tower ...T	2942.99
HD11-80 11 sq ft wind load 80' alum tower T	3327.99
HD12-80 12 sq ft wind load 80' alum tower T	3330.99
HD16-80 16 sq ft wind load 80' alum tower T	3555.99
HD4-90 4 sq ft wind load 90' alum tower ...T	2940.99
HD8-90 8 sq ft wind load 90' alum tower ...T	3454.99
HD11-90 11 sq ft wind load 90' alum tower T	3935.99
HD4-100 4 sq ft wind load 100' alum tower T	3903.99
HD8-100 8 sq ft wind load 100' alum tower T	4186.99
B-30 Base for HD tower	231.99
Extra **30" stubs** (between base & tower) .set	67.99
RFM-30 Flat roof mt for guyed tower	211.99
30 Taper 30" taper tower section .....T	604.99
30 Straight 30" straight tower section .....T	604.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC Flange bearing	102.99
2-3/16SC Flange bearing	114.99
Top Plate Flange plate welded to top section	27.99
1-1/4" OD x 5 ft aluminum mast .....T	24.99
1-1/4" OD x 10 ft aluminum mast .....T	38.99
1-1/2" OD x 10 ft aluminum mast .....T	47.99
2" OD x 8 ft aluminum mast	57.99
2" OD x 16 ft aluminum mast .....T	105.99

All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

Universal - continued

	AES Price

VALOR (See PRO AM)

VANCO (VCO)

370052 3½ digit multimeter .....Δ	$ 19.99
CL-3 Extra heavy duty alligator clip leads (10)	9.99
HF-24RS Scanner headphones w/dual volume	19.99
SWR-1 SWR/field strength meter	29.99
SWR-3 Mini SWR meter	19.99

VAN GORDEN (VAN)

D-15 15m 22' wire dipole antenna .....Δ	$ 35.99
G5RV-M Flat-top 1.8-30 204' ant/65' twinlead Δ	60.99
Hi-Q 1:1 balun .....Δ	18.99
PD-4020 40/20/15m 66' parallel dipole ....Δ	39.99
RG-213 Non-contaminating .....Δ,per ft.	.59
SD-40 Short 45' 40m wire dipole antenna .Δ	39.99
213-100ST 100' RG-213 coax/silver teflon PL259s .Δ	59.99
213-50ST 50' RG-213 coax/silver teflon PL259s Δ	39.99
450 ohm 18ga solid ladderline .....Δ,**100** ft.	24.99
450 ohm 14ga stranded ladderline .Δ,**100** ft.	54.99

VECTRONICS (VEC)

DL-300M 300w 150MHz dummy load	$ 49.99
DL-650M 1.5kw 650MHz dummy load	79.99
DL-2500 2.5kw 150MHz dummy load	199.99
HFT-1500 1.5kw antenna tuner	439.99
HPF-1 High pass filter, 75 or 300 ohms	24.99
HPF-2 Deluxe high pass filter, 75 or 300 ohms	34.99
LP-30 1.5kw low pass filter	89.99
LP-2500 2.5kw low pass filter	129.99
PM-30HF 300/3kw HF/6m wattmeter	89.99
PM-30UV 30/300w 2m/220/440 wattmeter ..	99.99
VC-300DLP 300w antenna tuner	169.99
VC-300M 300w mobile antenna tuner	129.99
121K Crystal radio set kit	19.99
131K Aircraft receiver kit	29.99
201K CW keyer kit	24.99
422K FM broadcast SCA decoder kit	27.99
830K Super SSB audio filter kit	19.99
841K Tunable SSB/CW audio filter kit	34.99
1140K 40m receiver kit	29.99
1240K 40m QRP CW transmitter kit	29.99
1290K AM radio transmitter kit	29.99

VELLEMAN (VEL)

AVM-2050 Analog sound level meter	$ 29.99
AVW-089 3 channel audio/video switcher	8.99
DVM-810 3½ digit digital multimeter	9.99
DVM-850BL Deluxe 3½ digit DMM w/holder ...	19.99
EL-301 30 in 1 electronic lab kit	39.99
EL-1301 130 in 1 electronic lab kit	89.99
EL-3001 300 in 1 electronic lab kit	129.99
K/TF 75-piece cable ties	2.99
TLM-2 Test lead set w/banana plugs	2.99
TLM-10 Test probe set	4.99
VT-BT6 33-piece screwdriver bit set	6.99
VT-COAX Coax stripper; RG-58/59/62/6	14.99
VT-D2 Heavy duty desoldering pump	3.99
VT-LAMP2U Hobby magnifier lamp w/table mt	49.99
VT-M468L Crimp tool for RJ-11/12/45	9.99
VT-SET 5-piece pliers	9.99
VT-SET3N 6-pc electronics screwdriver set ...	9.99
VT-SET21N 8-in-1 screwdriver set	4.99
VT-TS 25-piece hobbyist tool set	9.99

VIBROPLEX (VIB)

090 Original Gold Bug	$299.99
100 Original Presentation Super deluxe bug	269.99
105 Original Deluxe Bug	209.99

Vibroplex - continued

	AES Price
110 Original Standard Bug	179.99
113 VibroKeyer Gold Paddle	279.99
115 VibroKeyer Deluxe Paddle	199.99
120 VibroKeyer Standard Paddle	159.99
123 Iambic Gold Paddle	279.99
125 Iambic Presentation Paddle	269.99
130 Iambic Deluxe Paddle	199.99
135 Iambic Standard Paddle	159.99
145 Triangular Brass Racer Iambic paddle	149.99
150 Square Brass Racer Iambic paddle	149.99
153 Gold straight key	279.99
155 Standard straight key	159.99
160 Deluxe straight key	199.99
165 Deluxe Hand key/Iambic Paddle double	349.99
170 Dlx Hand key/VibroKeyer Paddle double	349.99
175 Standard Hand key/Iambic Paddle double Δ	249.99
180 Std Hand key/VibroKeyer Paddle double Δ	249.99
185 Square Racer Deluxe Iambic paddle	149.99
190 Square Racer Standard Iambic paddle	129.99
195 Blue Racer 2000 Std Millennium Bug	199.99
200 Code Warrior Junior Paddle	109.99
CP-3 Cord & plug for Iambic & Vibrokeyer	9.99

WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach	$ 12.99

W2AU (Unadilla) (W2A)

W2AU 1:1 160-10m balun, lightning arrestor	$ 26.99
W2AU 4:1 160-10m balun, lightning arrestor	26.99
W2AU Beam Balun, 1:1 HF balun	27.99
W2DU-HF 1:1 1.8-30 MHz choke balun	28.99
W2DU-VHF 1:1 30-250 MHz choke balun	28.99
W2DU Beam Balun 40-10m 1:1 HF choke balun	29.99
HA AN-sulator center insulator	11.99
HE END-sulator end insulators .....pair	6.99
KW-80CW Reyco 80m CW ant traps .....pair	52.99
KW-80F Reyco 75m phone ant traps .....pair	52.99
KW-60 Reyco 60m antenna traps .....pair	49.99
KW-40 Reyco 40m antenna traps .....pair	47.99
KW-30 Reyco 30m antenna traps .....pair	47.99
KW-20 Reyco 20m antenna traps .....pair	46.99
KW-17 Reyco 17m antenna traps .....pair	46.99
KW-15 Reyco 15m antenna traps .....pair	45.99
KW-12 Reyco 12m antenna traps .....pair	45.99
KW-10 Reyco 10m antenna traps .....pair	45.99
W2AU/W2VS 5-band ant kit (use tuner) .....D	85.99
W2AU/W2VS NoWire 5band ant kit (use tuner) less wire	78.99

W4RT (W4R)

Antenna Boss interface;mot ant/FT100/847/57/97	$169.99
Antenna Boss II interface;motor ant/IC706/7000/etc	169.99
KB-2 Cable for Ant Boss II w/LDG K-OTT .D	4.99
YB-OTT FT-100/817/857/897 interface ....D	44.99
YB-2 Cable; Ant Boss II w/W4R YB-OTT D	4.99
OBF-703/718-DIY CW&SB Collins filts;IC703/718	239.99
OBF-817/ND-DIY CW & SSB Collins filts;FT-817	239.99
OBP-STD Speech compress; 817/47/57/97 handmic	49.99
OBP-UNIV Speech compress; IC706/FT100 handmic	49.99
OPF-Y-CW-300 300Hz Collins CW filt;FT817/57/97	114.99
OPF-CW 500Hz Collins CW filter; FT817/57/97	109.99
OPF-SSB 2.3KHz Collins SSB filter; FT817/57/97	129.99

W5YI (W5Y)

BCOM Basic Communications Electronics book	$ 19.99
BDIG Basic Digital Electronics book	19.99
BELC Basic Electronics book	19.99
ECS-08 Extra upgrade software w/manual	49.99
GROL Commercial license elements 1/3/8 manual	39.99
GRSP Commercial study software w/GROL book	69.99
GSTD Getting Started in Electronics book	19.99
GUS-07 General upgrade software w/manual	44.99
GW05/CD Gordon West 8 ea 0-5 wpm code CD's	39.99

W5YI - continued

	AES Price
GWCT Gordon West refresher code course CD's	14.99
GWEM-08 Gordon West Extra study manual	24.99
GWEW-08 Gordon West 4 ea Extra theory CD's	39.99
GWGM-07 Gordon West General study manual	20.99
GWGW-07 Gordon West 4 ea General theory CD's	29.99
GWTM-06 Gordon West Tech study manual	18.99
GWTW-06 Gordon West 4 ea Tech theory CD's	27.99
HOS-08 Ham operator software/ (all classes)	39.99
HOSB-08 Ham op soft/3 books (all classes)	94.99
Mini-1 Timer, op amp & optoelectronics	12.99
Mini-2 Science & communications	12.99
Mini-3 Electronic sensors	12.99
Mini-4 Electronic formulas, symbols & circuits	12.99
NCS-06 Technician software w/manual	39.99
TPG-07 Tech/General software/manuals/code	69.99

WAHL (WAH)

7740 Quick charge cordless soldering iron kit	$ 52.99
7971 30 minute butane soldering iron	25.99
7974 120 minute butane soldering iron	39.99

Watson Guptill (WAT)

059979 2007 World Radio TV Handbook .....D	$ 14.99

WELLER (WEL)

7200PK 75w soldering gun kit	$ 27.99
7235 Extra standard tips (2) for 7200PK	3.99
CHT-100 ColdHeat Pro soldering tool	32.99
SP-23LK 25w soldering iron kit	16.99
WP-25 25w professional soldering iron	37.99
ST-4 3/16" screwdriver tip for WP-25	3.99
ST-5 1/32" single flat tip for WP-25	3.99
W-60P 60w temp controlled soldering iron	70.99
CT-5E7 1/4" screwdriver tip for W-60P .....D	4.99
WESD51 50w adjustable soldering station	159.99
WSTA3 Pyropen portable LP soldering iron	119.99
WST2 Pyropen Jr. portable butane iron .....Δ	59.99
WTCPT 60w temp controlled soldering stn	139.99

West Mtn Radio (WES)

CBA-2 Computerized battery analyzer w/software	$109.99
CBA/TEMP Temperature probe for CBA-2	11.99
CLR/DSP ClearSpeech DSP noise reduction processor	219.99
CLR/SPKR ClearSpeech DSP noise reduction spkr	219.99
CS-1 COMspkr speaker system for ham station PC	69.99
PG-40 PWRgate simple backup power system	69.99
PG-40S PWRgate backup power sys w/charger	129.99
RB/PR/CUSB Rigblaster Pro; 8-pin/RJ-45	279.99
RB/PL/CUSB Rigblaster Plus; 8-pin/RJ-45	149.99
RB/NO/CUSB Rigblaster nomic universal; 8pin/RJ45	59.99
FT100/CBL 3' cable; Yaesu RJ-45/6-wire	16.99
RB/PP* Rigblaster plug & play USB data/aux jack	109.99
*Call before ordering for proper configuration with radio	
CATMINI/CBL Yaesu rig control cbl for RB/PP	12.99
CIV/CBL Icom/TenTec rig control cbl; RB/PP	8.99
RPA/I8D Icom 8-pin DIN acc1 jack adapter	9.99
RPA/I13D Icom 13-pin DIN aux jack adapter	9.99
RPA/K13D Kenwood 13-pin DIN aux jack adapt	9.99
RR/4005/C Rigrunner 40A 5outlet/cbl/connectors	79.99
RR/4008/C Rigrunner 40A 8outlet/cbl/connectors	109.99
RR/4010S/C Rigrunner FET 9outlet/cbl/connectors	139.99
RR/4012/C Rigrunner 40A 12outlet/cbl/connectors	129.99
RR/8012/C Rigrunner 80A 12outlet/cbl/connectors	149.99
C30/PK/12 12-pair 30A PowerPole connectors	11.99
C45/PK/12 12-pair 45A PowerPole connectors	17.99
PWR/TOOL PWRcrimp PowerPole crimp tool	49.99
RT-1 Rigtalk USB rig control interface	49.99
CATMINI/CBL Yaesu cable for RT-1	12.99
CIV/CBL Icom/Ten-Tec cable for RT-1	8.99
WHAT/MTR Whattmeter watt/volt/amp/amp hr	69.99

Wiley Publishing (WIE)

	AES Price
GPS Dummies Gps for Dummies book	$ 21.99
HR for Dummies Ham Radio for Dummies book	21.99
WX for Dummies Weather for Dummies book	21.99

WILSON (WIL)

FGT-4/BLK 4' black figerglass CB whip	$ 29.99
FGT-4/WHT 4' white figerglass CB whip	29.99
Little Wil Magnetic mt CB antenna	39.99
Trucker 2000 Black mobile 3/8-24 CB whip	62.99
W-1000 Magnetic Black mobile CB antenna	76.99
W-1000 Roof Top Black mobile CB antenna	59.99
W-1000 Trunk Lip Black mobile CB antenna	66.99

WINEGARD (WIN)

CX-0625 25' RG-6 TV coax w/F connectors	$ 10.99
CX-0650 50' RG-6 TV coax w/F connectors	15.99
CX-0675 75' RG-6 TV coax w/F connectors	19.99
CX-6100 100' RG-6 TV coax w/F connectors	24.99
PR-7032 33 el 103.25" boom Prostar TV ant Δ	89.99
PR-7042 43 el 149.75" boom Prostar TV ant Δ	149.99
TV-2900 Outdoor TV matching transformer	2.99

YAESU (YAE)

FTDX-9000 Contest 200w HF/6m Xcvr	*5199.99
*Price after instant coupon; coupon expires 4/30/08	
FTDX-9000D Deluxe 200w HF/6m Xcvr	*10599.99
*Price after instant coupon; coupon expires 4/30/08	
FTDX-9000MP High Power 400w HF/6m Xcvr	*10999.99
*Price after instant coupon; coupon expires 4/30/08	
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-31B8 Extra hand microphone	49.99
SP-9000 Ext dual spkr sys/audio filts; D/Contest	369.99
YH-77STA Open-air type stereo headphones	59.99
FT-2000 100w HF/6m AC/DC DSP Xcvr	*2499.99
*Price after instant coupon; coupon expires 4/30/08	
FT-2000D 200w HF/6m DSP Xcvr	*3099.99
*Price after instant coupon; coupon expires 4/30/08	
CT-119 FT-2000 firmware upgrade cable	28.99
DMU-2000 Data management unit	949.99
FH-2 Remote keyboard	99.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-31B8 Extra hand microphone	49.99
MTU-160 u-tuning kit A for 160m	499.99
MTU-80/40 u-tuning kit B for 80/40m	499.99
MTU-30/20 u-tuning kit C for 30/20m	499.99
SP-2000 External speaker w/audio filters	199.99
T-9101556 Rotor control to FT-2000 cable	25.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-950 HF/6m Xcvr/IF-DSP/tuner	1499.99
CT-118 Control cable; FT-950 to Quadra	40.99
CT-119 FT-950 firmware upgrade cable	28.99
DMU-2000 Data management unit	949.99
DVS-6 Voice memory unit	70.99
FC-40 Automatic wire antenna tuner .....†	249.99
FH-2 Remote keyboard	99.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MTU-160 u-tuning kit A for 160m	499.99
MTU-80/40 u-tuning kit B for 80/40m	499.99
MTU-30/20 u-tuning kit C for 30/20m	499.99
SP-2000 External speaker w/audio filters	199.99
T-9101556 Rotor control to FT-950 cable	25.99
T-9207451 6.5' 10p DIN cbl; FT950/other amp	36.99
T-9207460 4' 10p DIN cbl; FT950/other amp	36.99
YH-77STA Open-air type stereo headphones	59.99

Yaesu - continued

	AES Price
FT-450 Compact HF/6m Xcvr/IF-DSP	*649.99
*Price after instant coupon; coupon expires 4/30/08	
(BET) **Yae Tune Control** for FT-450 series	44.99
ATU-450 Internal coax auto antenna tuner	149.99
FT-450AT Compact HF/6m Xcvr/IF-DSP/tuner	*749.99
*Price after instant coupon; coupon expires 4/30/08	
(BET) **Yae Tune Control** for FT-450 series	44.99
CT-118 Control cable; FT-450 to Quadra	40.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ATAS-120 HF/6/2/430 motorized mob ant	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
FC-40 Automatic wire antenna tuner †	249.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MHG-1 Carrying handle	15.99
MMB-90 Mobile mounting bracket	45.99
T-9207451 6.5' 10p DIN cbl; FT450/other amp	36.99
T-9207460 4' 10p DIN cbl; FT450/other amp	36.99
YH-77STA Open-air type stereo headphones	59.99
FT-897D HF/6m/2m/430 port/base Xcvr/TCXO	*799.99
*Price after instant coupon; coupon expires 4/30/08	
(BET) **Yae Tune Control** for FT-897 series	44.99
(W4R) **Antenna Boss** interface; other mfgr mot ant	169.99
(W4R) **OPF-Y-CW-300** 300Hz Collins CW filter	114.99
(W4R) **OPF-CW** 500Hz Collins CW filter	109.99
(W4R) **OPF-SSB** 2.3KHz Collins SSB filter	129.99
FP-30 Internal power supply	229.99
ADMS-4B Windows prog software w/cable	59.99
ATAS-120 HF/6/2/430 motorized mob ant	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A Packet cable	11.99
CT-62 CAT interface cable	36.99
EDC-20 Extra DC cable	18.99
FC-30 Antenna tuner; bolts to FT-897	199.99
FC-40 Automatic wire antenna tuner †	249.99
FNB-78 4.5ah NiMH batt (will accept 2)	129.99
CD-24 4-hr charge adapter for FNB-78	129.99
PA-26B 110vac charger for CD-24	89.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-36E8J TTP mic	69.99
MH-59A8J Remote control TTP mic	79.99
MLS-100 Mobile speaker	49.99
MMB-80 Mobile mounting bracket	39.99
T-9023225 Extra DC cable	26.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-857D Mini HF/6m/2m/430 Xcvr/DSP	*699.99
*Price after instant coupon; coupon expires 4/30/08	
FREE YSK-857 with FT-857D thru 4/30/08!	
(BET) **Yae Tune Control** for FT-857 series	44.99
(W4R) **Antenna Boss** interface; other mfgr mot ant	169.99
(W4R) **OPF-Y-CW-300** 300Hz Collins CW filter	114.99
(W4R) **OPF-CW** 500Hz Collins CW filter	109.99
(W4R) **OPF-SSB** 2.3KHz Collins SSB filter	129.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ADMS-4B Windows prog software w/cable	59.99
ATAS-120 HF/6/2/430 motorized mob ant	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A Packet cable	11.99
CT-58 Band data cable; Yaesu amplifier	34.99
CT-62 CAT interface cable	36.99
EDC-20 Extra DC cable	18.99
FC-30 Antenna tuner	199.99

Yaesu - continued

	AES Price
FC-40 Automatic wire antenna tuner †	249.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-36E8J TTP mic	69.99
MH-59A8J Remote control TTP mic	79.99
MLS-100 Mobile speaker	49.99
T-9023225 Extra DC cable	26.99
TCXO-9 TCXO unit, 0.5 ppm	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
YH-77STA Open-air type stereo headphones	59.99
YSK-857 Separation kit	69.99
FT-817ND 5w HF/6/2/430 Xcvr/FNB85/NC72B	599.99
(W4R) **OBF-817/ND-DIY** CW & SSB Collins filts	239.99
(W4R) **OPF-Y-CW-300** 300Hz Collins CW filter	114.99
(W4R) **OPF-CW** 500Hz Collins CW filter	109.99
(W4R) **OPF-SSB** 2.3KHz Collins SSB filter	129.99
ADMS-4A Windows prog software w/cable	59.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CSC-83 Soft case w/side pocket for FT-817	29.99
CT-39A Packet cable	11.99
CT-62 CAT interface cable	36.99
EDC-6 Extra DC cord; plug & wire only	8.99
FNB-72 9.6v 1000mah nicad battery Δ	19.99
FNB-85 9.6v 1400mah NiMH battery	69.99
MH-36E8J TTP mic	69.99
MLS-100 Mobile speaker	49.99
NC-72B Extra nicad wall charger	24.99
TCXO-9 TCXO unit, 0.5 ppm	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
CT-61 Interface cable; FT-847 to amp Δ	15.99
DVS-2 Digital voice module; Mk V/Field D	229.99
E-736 DC cable for FT-736R Δ	19.99
FC-10 External coax fed auto tuner; FT-840 Δ	299.99
FC-800 External long wire auto tuner Δ	399.99
FM-747 FM unit; FT-840 Δ	69.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
FRB-5 Relay board; FTV-1000/original MP Δ	19.99
MH-36D8 TTP mobile mic; FT-847 D	69.99
MMB-20 Mobile mount; FT-840 Δ	24.99
MMB-66 Mobile mounting bkt; FT-847 Δ	29.99
MMB-67 Quick release bracket; FT-100D Δ	24.99
SP-8 External speaker w/filters; Mk V/Field Δ	174.99
T-9018320 DC cable; FT-840/847/Field Δ	29.99
T-9021925 Extra DC cord; FT-100D D	39.99
TCXO-4 TCXO unit; FT-840/FRG-100B Δ	99.99
XF-117CN 300 Hz CW filter; FT-100D D	69.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YA-30 1.8-30 MHz broadband dipole ant	259.99
YF-110SN 2KHz 3rd IF SSB filt;Mk V/Field Δ	119.99
YF-112A 6 KHz AM filter; FT-840 Δ	99.99
YF-112C 500 Hz CW filter; FT-840 Δ	99.99
YF-114CN 250Hz 2nd IF CW filt;Mk V/Field Δ	119.99
YF-114SN 2KHz 2nd IF SSB filt;Mk V/Field Δ	119.99
YF-115C 500Hz CW Collins filt;FRG/MkV&Field Δ	119.99
YF-116A 6 KHz AM filter for FT-920 Δ	99.99
YF-116C 500 Hz CW filter for FT-920 Δ	99.99
YH-77STA Open-air type stereo headphones	59.99
YSK-100 Separation kit for FT-100D Δ	99.99
Quadra System VL/VP1000 HF+6m amp/ps/tuner	3899.99
VR-120D Pack w/CA34/FNB79/NC82/PA30B	*139.99
*Price after instant coupon; coupon expires 4/30/08	
CA-34 Charger sleeve; NC-82/VR-120D	5.99
CSC-76 Soft case for VR-120/D	19.99
EDC-15 DC adapter	39.99

Yaesu - continued

	AES Price
FNB-79 Nicad battery for VR-120D	10.99
NC-82 Charger stand	9.99
PA-30B AC adapter	8.99
VR-500 Pack HH Rcvr w/FNB-79/NC-60B	*269.99
*Price after instant coupon; coupon expires 4/30/08	
ADMS-3 Windows programming software	39.99
CSC-72 Soft case for VR-500	19.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC adapter; plug & wire only	8.99
FNB-59 Nicad battery for VR-500 Δ	14.99
FNB-79 Nicad battery for VR-500	10.99
NC-60B Wall charger	16.99
VR-5000 .1M-2.6G base rcvr AM/FM/SSB/cell blkd	*569.99
*Price after instant coupon; coupon expires 4/30/08	
DSP-1 DSP unit	119.99
DVS-4 Digital voice recorder	49.99
FM Unit-100 FM unit for FRG-100B Δ	19.99
FTM-10R 50w 2m/40w 440 FM Xcvr/int mic	*299.99
*Price after instant coupon; coupon expires 4/30/08	
FTM-10SR 10w 2m/7w 440 FM Xcvr/int mic	*299.99
*Price after instant coupon; coupon expires 4/30/08	
Bluetooth Kit Kit w/BH-1/BU-1/CAB-1	199.99
CT-M10 20' separation cable	31.99
MEK-M10 Microphone jack	14.99
MH-68A6J Waterproof DTMF hand mic	59.99
MLS-200-M10 Waterproof external speaker	40.99
MMB-M10 Multi-angle stand bracket	30.99
MMB-M11 Multi-angle handle bar bracket	30.99
YHA-M10 2m/440 0/3db 19.7" antenna	40.99
AMK-1 License plate bracket for YHA-M10	23.99
COX-2MM 6.6' coax cable for YHA-M10	32.99
FT-7800R 50w 2m/40w 440 FM Xcvr/WX alert	*254.99
*Price after instant coupon; coupon expires 4/30/08	
FREE YSK-7800 with FT-7800R thru 4/30/08!	
ADMS-2K Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
T-9021715 Extra DC cable	12.99
YSK-7800 Remote separation kit	49.99
FT-8800R 50w 2m/35w 440 FM Xcvr	*354.99
*Price after instant coupon; coupon expires 4/30/08	
FREE YSK-8900 with FT-8800R thru 4/30/08!	
ADMS-2I Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt D	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	49.99
FT-8900R 50w 10m/6m/2m/35w 440 FM Xcvr	*399.99
*Price after instant coupon; coupon expires 4/30/08	
FREE YSK-8900 with FT-8900R thru 4/30/08!	
ADMS-2H Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt D	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	49.99
ADMS-2E Windows prog soft; FT-2600M/90R Δ	39.99
ADMS-2F Windows prog software; FT-1500M Δ	39.99
ADMS-2G Windows prog soft; FT-7100M Δ	14.99
FT-1802M 50w 2m FM Xcvr w/WX	*129.99
*Price after instant coupon; coupon expires 4/30/08	
ADMS-1802 Windows programming software	39.99
MLS-100 Mobile speaker	49.99
FT-2800M 65w 2m FM Xcvr w/WX alert	*139.99
*Price after instant coupon; coupon expires 4/30/08	
ADMS-2J Windows programming software	39.99
MLS-100 Mobile speaker	49.99

Yaesu - continued

	AES Price
S-8002051/MMB-83 Extra mobile bracket	4.99
S-8101436 Extra DC cable	7.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
HRI-100 WIRES II interface box	149.99
LF-1 Mobile 13A DC noise filter	29.99
MLS-100 Mobile speaker	49.99
VXR-7000VA/Vertex 50w 2m FM AC/DC rptr	1269.99
VX VPL-1 Repeater programming cables	87.99
Repeaters require service dept set-up; $45 minimum	
ADMS-1E Windows prog software; VX-5R Δ	39.99
ADMS-1H Windows prog software; VX-2R Δ	39.99
CLIP-10 Spring loaded belt clip; FT-50 Δ	2.99
CSC-68 Soft case; FT-50//FNB-41/FBA-15 Δ	9.99
CSC-71 Soft case for VX-1R Δ	1.99
CSC-73 Soft case for VX-5R D	12.99
CSC-90 Soft case for VX-2R Δ	19.99
CSC-V10 Cordura soft case; FT-10/40/50 Δ	9.99
FBA-15 4-AA battery holder; FT-50RD Δ	19.99
FBA-17 AA battery holder; FT-23/411/470 Δ	19.99
FBA-20 Battery holder for VX-1R Δ	19.99
FBA-21 6-AA battery holder; FT-50RD Δ	39.99
FNB-V47 7.2v 1100mah battw/belt clip; FT-50 Δ	39.99
NC-60B Wall charger for FT-10/50	16.99
CA-15 Charging stand; NC-60B; FT-10/50 D	19.99
Q-3000166 Replacement duck ant for VX-5R Δ	30.99
FT-60R 5w 2m/440 FM HT	189.99
ADMS-1J Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
VAC-370 Rapid charger	79.99
VC-25 VOX headset	69.99
VX-150 5w 2m FM HT/16-key TTP	*117.99
***Price after instant coupon; coupon expires 4/30/08**	
FREE extra FNB-64 with VX-150 thru 4/30/08!	
ADMS-1F Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-V57 7.2v 1100mah battery	35.99
FNB-64 Extra 7.2v 700mah battery	36.99
LCC-150/TT Leather case	29.99
LCC-150S/TT Leather case w/swivel	36.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
NC-72B Extra wall charger	19.99
VAC-400B 1-hour desk top rapid charger	69.99
VC-25 VOX headset	69.99
VX-170 5w 2m FM HT/16-key TTP	*119.99
***Price after instant coupon; coupon expires 4/30/08**	
VX-177 5w 440 FM HT/16-key TTP	149.99
ADMS-VX170 Windows prog software; VX-170	39.99
ADMS-VX177 Windows prog software; VX-177	39.99
CD-26 Charger cradle	30.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99

Yaesu - continued

	AES Price
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-57A4B Speaker/mic	30.99
VAC-370 Rapid charger	79.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-3R 1.5w 2m/1w 440 submini HT/lith ion	179.99
ADMS-VX3 Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CSC-92 Soft case	15.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-21 DC adapter	42.99
FBA-37 3 AA cell battery case	20.99
FNB-82LI Extra 3.7v 1000mah lith ion batt	38.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
VC-25 VOX headset	69.99
VX-6R 5w 2m/440/1.5w 220 FM HT	249.99
ADMS-VX6 Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-91 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
NC-72B Extra wall charger	19.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-7R Silver 5w 6m/2m/440/300mw 220 FM HT	*294.99
***Price after instant coupon; coupon expires 4/30/08**	
VX-7RB Black 5w 6m/2m/440/300mw 220 FM HT	*294.99
***Price after instant coupon; coupon expires 4/30/08**	
ADMS-1G Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-88 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
NC-72B Extra wall charger	24.99
Q-3000185 Replacement duck ant	29.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99

ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire	$259.99
G-550 12 sq ft elevation rotor/6-wire	299.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	429.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	519.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1139.99
Note: G-2800DXA comes w/40m (131') of rotor cable	
G-5500 11 sq ft azimuth/elevation rotor//2x6-wire	629.99
GA-3000 Tower absorber joint; G-1000/2800 Δ	99.99
GC-038 Mast clamp; G-450/800/1000/5500	39.99
GC-048 Mast clamp; G-2800	49.99
GL-33 Mast adjustment plate	18.99
GS-050 50mm thrust bearing; mast 1¼-2"	39.99
GS-065 65mm thrust bearing; mast 1½-2½"	54.99
GS-232B Computer interface; DXA rotors	589.99
C-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	109.99

Yaesu - continued

	AES Price
Sep Kit Separation kit for G5500	29.99

See BELDEN for rotor cable

CONSUMER ELECTRONICS

VXA-710 Spirit 5w air handheld	$349.99

CLOSE-OUTS

ALA Zap Checker/180 Transmitter/bug detector	$ 89.99
ALI DR-M06TH 20w 6m FM Xcvr/encoder	229.99
ALP Delta-4/N 1.3 GHz 4-pos N switch/protector	79.99
ALP DX-40/20 40/20m 40' low profile dipole ant	79.99
ALP Pathfinder 1.8-30+6m dig auto ant tuner	199.99
AOR ARD-9000 Digital SSB interface	259.99
AOR AR-3000AB .1-2036MHz dlx w/SB/cell blkd	899.99
AOR LA-350 3-30MHz active loop antenna	249.99
AOR SDU-5500 Spectrum disp unit/PC interfc	699.99
ASR RS-12S 9A ps, 12A surge, w/speaker	69.99
ASR RS-35A/220V 220v 25A ps, 35A surge	139.99
AVM G-4T Geosat 4 GPS/THD7A/TMD700A cable	499.99
BEN BY-3 Iambic keyer paddle, gold plated	299.99
BOU Fast Tracker Metal detector/2-tone target ID	69.99
CEL 52211 60mm wildlife zoom spot scope/tripod	79.99
CEL 93497 Standard tripod	69.99
CSY CS-800 Desk duplex interconnect/rptr controller	289.99
CUS MA-5V 20/17/15/12/10m 14.7' vert ant	229.99
CUS MA-6V 20/17/15/12/10/6m 14.7' vert ant	269.99
DAV 7400 Perception II indoor weather unit	99.99
DAV 7440 Monitor II weather station	249.99
DIA 2400-Y12 2.4GHz 12db 8el 15"bm 25w N	89.99
DIA F-23A 2m 7.8db 15' base antenna	129.99
DIA G-200 2.4GHz 11db 6' N base antenna	149.99
DIA MAY-1000 2el 120-500MHz handheld beam	99.99
DIA MG-200 2.4GHz 7db 23.6" N mobile ant	74.99
ESP ESP-1 Microphone audio processor	199.99
GAR cfQue-1620 GPS module for Pocket PC's	129.99
GAR eTREX 12 ch mini GPS receiver	89.99
GAR Forerunner 201 Wrist GPS/personal trainer	139.99
GAR Foretrex 101 Wrist GPS	119.99
GAR GPS-12XL GPS receiver	129.99
GAR GPS-18PC Dlx GPS sensor; laptop/serial/mag/soft	119.99
GAR GPS-18USB Dlx GPS sensor; laptop/USB/mag/soft	119.99
GAR GPS-60 GPS w/1MB internal memory	149.99
GAR GPS-72 Handheld track-plotter GPS	119.99
GAR GPS-MAP60 GPS w/24MB internal mem	199.99
GAR iQue-3600 Handheld PDA/integrated GPS	349.99
GAR Rino-120 GPS/FRS/GMRS/8mb mem/basemap	189.99
GAR StreetPilot 2610 Deluxe GPS	499.99
GRU E-100 Portable AM/FM/SW receiver	99.99
HAL RTTY-1 RTTY tuning indicator	69.99
HEI BM-5-iC Bm mic/sgl headset/adapter; Icom	74.99
HEI GM-V Goldline vintage studio mic/matching xfmr	109.99
HEI HCL-4 Classic 1930's desk mic/studio el & HC-4	199.99
HEI PSQP-4 Pro-Set Quiet Phone 4 boom mic/headph	230.99
HEI PSQP-5 Pro-Set Quiet Phone 5 boom mic/headph	230.99
HEI PSQP-iC Pro-Set Quiet Phone;Icom bm mic/headph	250.99
ICO AH-2B extra **whip only**	99.99
ICO BC-119-N11 Nicad/NiMH desk cgr (use adapt)	89.99
ICO BC-119-N21 Nicad/NiMH desk cgr; T81A	99.99
ICO BC-135 Desktop charger/adapter; R-3	69.99
ICO BP-172 4.8v 950mah battery	69.99
ICO BP-173 9.6v 600mah battery	119.99
ICO BP-180 7.2v 600mah battery	79.99
ICO BP-200L 9.6v 760mah NiMH batt; T81A	79.99
ICO IC-M32 Waterproof 5w VHF marine handheld	149.99
JRP 317275 XS3 synth FM pistol/1-Z590W1-Z270 75M	69.99
KAN KAM 98 Single port multi-mode dig controller	299.99
KEN AT-50 External HF auto tuner	319.99
KEN DFK-7 Dlx 22' rem cable kit; 642/742AD	69.99
KEN DFK-7C Dlx 23' rem cable kit; TMG707A	99.99
KEN PB-34 9.6v 600mah 5w batt; TH-22ATH	79.99
KEN SO-2 TCXO unit; TS-570D/S	179.99
KEN SP-31 External speaker; TS-870S	99.99

Close-Outs - continued

		AES Price
KEN SP-950	Ext spkr/audio filters; TS-950SDX	149.99
KEN YK-88C-1	500 Hz CW filter; TS-570D/S	129.99
KEN YK-88CN-1	270 Hz CW filter; TS-570D/S	129.99
KEN YK-88SN-1	1.8 KHz SSB filter; TS-570D/S	129.99
KEN YK-107C	500 Hz CW filter; TS-50S	119.99
KOS QZ/2000	Active noise reduction stereoph	89.99
LAC WS-8025AL	Dlx sun/moon wireless WX stn	89.99
LDG AT-200PC	160-6m 5-250w/100w 6m PC ctl tuner	199.99
LDG AT-1000	1000w PEP HF/100w 6m auto tuner	449.99
LDG TW-1	160-6m 2kw PEP talking wattmeter/SWR	149.99
LDG TW-2	6m-440 250w PEP talking wattmeter/SWR	139.99
MFJ 1214PC	Multimode interface for IBM	129.99
MFJ 1224	Computer Interface	79.99
MFJ 442	SlimLine keyer/Bencher combo	139.99
MFJ 498	Dlx CW keyboard/kyr w/disp/keyboard	89.99
MFJ 624D	8p phone patch w/audio VU meter	139.99

Close-Outs - continued

		AES Price
MFJ 991	150w automatic antenna tuner	129.99
MFJ 8621	5w 2m data radio w/145.01 MHz	119.99
MIR C-22G	220 FM/SSB 2/20w amp/preamp	149.99
MIR D-15N	430 FM/SSB/ATV 2/15w type N amp	149.99
MIR D-26N	440 FM/SSB 2/60w type N amp	229.99
ORE WMR-112A	Wireless weather station	89.99
PLS AT-1500CV	750w T-match ceramic roller ind tuner	399.99
PLY PLDO-120US15A	120v 15A power protector	149.99
SAN PR-D2	AM/FM port dark grain "Q" radio	69.99
SON ICF-SW12	AM/FM/SW travel Rcvr/world clock	69.99
SON ICF-SW35	AM/FM/SW portable receiver	89.99
UNI Polaris	25w VHF marine Xcvr w/hailer	89.99
UNM W9XT	Contest card; IBM PC & compatible	99.99
VAL AST-6BTV	75/40/20/15/10/6m mobile ant	99.99
VIB 175	Std Hand key/Iambic Paddle double	249.99
VIB 180	Std Hand key/VibroKeyer Paddle double	249.99

Close-Outs - continued

		AES Price
W4R OBF-703/718-DIY	cw&sb Collins filts;703/718	199.99
WIN PR-7032	33 el 103.25" boom Prostar TV ant	89.99
WIN PR-7042	43 el 149.75" boom Prostar TV ant	149.99
YAE DVS-2	Digital voice module; Mk V/Field	229.99
YAE FC-10	External coax fed auto tuner; FT-840	299.99
YAE FC-800	External long wire auto tuner	399.99
YAE GA-3000	Twr absorber joint; G-1000/2800	99.99
YAE SP-8	External speaker w/filters; Mk V/Field	174.99
YAE TCXO-4	TCXO unit; FRG-100B/FT-840	99.99
YAE XF-117CN	300 Hz CW filter; FT-100D	69.99
YAE YF-114CN	250Hz CW filter; Mk V/Field	119.99
YAE YF-114SN	2KHz SSB filter; Mk V/Field	119.99
YAE YF-115C	500Hz CW Collins filt;FRGMkV&Field	119.99
YAE YF-116A	6 KHz AM filter for FT-920	99.99
YAE YF-116C	500 Hz CW filter for FT-920	99.99

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Demo Gear

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- Manufacturer's Warranty

Used & Demo inventory as of 2/13/08. Current lists available for viewing at www.aesham.com

USED GEAR

ALINCO
EDC6 CHARGER 4.99mcv
DAIWA
CN101 SWR/POWER METER 74.99v
DIAMOND
MX72D 2M/440 DUPLEXER 34.99m
ICOM
AT180 AUTOMATIC ANT TUNER 259.99mf
IC208H 2M/440 XCVR 199.99m
IC7000 DLX HF/VHF/UHF XCVR 1,099.99m
IC706MKIIG HF XCVR/FL232 769.99m
IC706MKIIG HF/6M/2M/440 XCVR 749.99m
IC706MKIIG XCVR/UT102/FL223 799.99m
IC746 HF/VHF XCVR 799.99f
IC746PRO HF/6/2 XCVR 1,199.99mf
IC756PROII HF/6M XCVR 1,879.99m
PS125 25 AMP PWR SUPPLY 149.99f
RMK7000 SEPARATION KIT 69.99m
KENWOOD
AT250 TUNER (AS-IS) 99.99m
PG4X 13' EXTENSION KIT (AS-IS) 49.99c
TMD700A 2M/440 FM XCVR 440.99f
LDG
AT1000 HF AUTOTUNER 329.99f
MFJ
9420X 20W PEP 20M SSB XCVR 207.99m
PALSTAR
AT5K 3500W ROLLER IND TUNER 949.99f
SANGEAN
DT200V AM/FM/VHF TV (AS IS) 39.99c
YAESU
FP800 POWER SUPPLY 199.99m
FTM10R 2M/70CV XCVR 269.99m
FT1000MP HF XCVR 1,299.99m
FT840 HF XCVR/YF112A/TCX04 499.99v
YH77STA STEREO HEADPHONES 44.99v

DEMO GEAR

ALAN BROADBAND
ZAPCHECKER 180 79.99m
ALINCO
DJV5TH 2M/70CM HT 189.99m
DJX2T RCVR 119.99m
DJX30T RCVR 179.99mf
DJX7T RCVR 149.99mc
DJ196T 2M HT 99.99m
DX70TH HF/6M XCVR 674.99m
DX77T HF XCVR 629.99cf
EBP35N BATTERY 59.99c
EBP36N BATTERY 59.99v
EDC111 QUICK CHARGER; EBP5 45.99f
EME13 HEADSET 54.99m
EMS49 SPEAKER/MIC 29.99c
EMS51 HEADSET 29.99m
ERW4 PC CABLE/ERW4C 39.99m
ALPHA DELTA
PATHMINDER COAXIAL SWITCH 99.99m
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PT3 2-54 MHZ PREAMPLIFIER 124.99m
AMERITRON
ALS500RC REMOTE KIT 44.99m
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Join the Fun on the Air!

DR-135T/TP MKIII (2m), DR-435T MKIII (440 MHz), DR-235T MKIII (222 MHz) Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, *Extra rugged!* Accepts optional digital voice communications board.

DR-03T (29MHz) 10M Mobile/Base

Excellent TX/RX audio, large alphanumeric display, remote control from multifunctional back-lit microphone, CTCSS and DCS encode/decode, three-output level, 100 memories, theft alarm, cable-clone and more in a compact, easy-to-use design. *Alinco value and affordability!*

DJ-596T MKII 2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Expanded receive; optional digital voice communications board and more! *Extend your abilities!*

DJ-C7T 2m+ 440 "Pocket" HT

Meet the "new generation" mini-HT! Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! *Extremely versatile dual-band HT.*

DJ-V17T 2M HT
DJ-V27T 222 MHz HT
DJ-V47T 440 MHz HT

Rugged design resists moisture, dirt and dust!

Great audio and high grade water-resistant design!

Full power HTs with large 40mm internal speaker, rugged polycarbonate body compatible to IPX7, 500mW max audio-output, over 200 memories, ergonomic design, ultra-flexible antenna with SMA connector, 39 CTCSS settings, split function, two-level attenuator, backlit alphanumeric display and special battery- drain function to help avoid battery memory-effect. Ni-MH standard; also uses optional Lithium-ion and NiMH battery packs or AA dry cell case. Perfect for outdoor activities.

DX-70TH (100w) HF+6m Mobile/Base/Portable

160~6m Amateur band TX in all modes, Extra coverage RX from 150 KHz~30 MHz and 50~54 MHz. Remotable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more! *Optional accessories include EDX-2 wire antenna tuner & DM-330MVT power supply.*

DR-06T (50Mhz) 50 WATT Mobile/Base

Three output levels, large alphanumeric display, remote control from multifunctional back-lit microphone, 100 memories, theft alarm, cable clone, CTCSS and DCS encode/decode and more. Excellent TX/RX audio. Compact and easy to use!

DJ-S45T 440 MHz "Micro" HT

Tiny, but tough. Rugged polycarbonate design resists impacts, dust & moisture. Features New Quick Repeater Access Mode, 100 memories; any mix of simplex or repeater channels, CTCSS encode and decode (separately programmable). Computer programmable with optional cable, free software at www.alinco.com.

DJ-V5TH, 2m/440 HT*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. *Excellent performer!*

DM-330MVT Communications Grade Switching Power Supply

Alinco's Experts have reinvented the power supply! Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. *Extra versatile, use for travel, station or test bench.*

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ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distributors regardless of contact information found on the warranty certificate packed with the product.

Catch ALL the excitement!

DJ-X7T Wide Range Pocket Size Communications Receiver

100KHz to 1.3GHz Triple conversion AM/NFM; double conversion WFM, plus FM, SW, and TV* Super small "credit card" size (as thin as 14.5 mm, as light as 103g) delivers AMAZING audio quality! Easy to read illuminated LCD, 1,000 memory channels, five operating modes, three different antenna modes, easy to program with free downloadable software (optional cable required), cable-clone, and a long-lasting Lithium ion battery! Standard adapter charges the Li-Ion battery AND operates with AC power, even at the same time, so you can listen while charging.

DJ-X30T Wide Range Communications Receiver

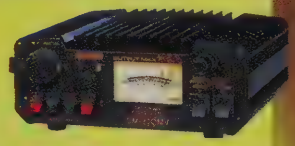
captures shortwave signals and more

100 KHz to 1.3 GHz* Triple conversion AM/NFM; double conversion WFM, optional EDS-12 cable can be used for remote-control and AUX capability, 1,000 memory channels, easy to program memory banks, five scan modes, memory lock-out function, selectable keyboard system enables everyone from beginner to experienced operators to enjoy advanced features, use with or without removable keypad, 7.1oz compact design, five operating modes, internal AA battery, three different antenna modes. Download free control software from www.alinco.com

DM-340MVT IC Regulated Power Supply

30A nominal, 35A peak output. Variable output 0 ~ 15 VDC, convenient front-panel connections includes high current terminals, cigar lighter (10A) and quick-connect (5A). Built-in circuit protection, convenient front-panel fuse.

DM-330MVT Communications Grade Switching Power Supply



Alinco's Experts have reinvented the power supply! Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. *Extra versatile, use for travel, station or test bench.*

DJ-X3TD Multimode Wide Range Communications Receiver

Exceptional and unique! Small but powerful. Receives 100 KHz ~ 1.3 GHz*, AM, NFM, WFM. 700 memory channels, dry cell battery pack, four scan modes, stereo FM reception.** *Download free control software from www.alinco.com*

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Accurate Measurements NO EXCUSES.

Professionally Engineered Cross Needle Meters

Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.

Professional Series

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6"l x 4½"h x 4½"d (approx.)

CN-801HP
PEP Reading SWR/Power Meter
Frequency Range: 1.8-200MHz
Forward Power Ranges: 20/200/2000W

NEW

CN-801V
Frequency Range: 140-525MHz
Forward Power Ranges: 20/200W

CN-801SH
Frequency Range: 900-2500MHz
Forward Power Ranges: 2/20W

Economy Series

Accurate and dependable bench meters at an economy price. Lighted, 13.8VDC jack on rear panel. 6"l x 3"h x 4"d (approx.)

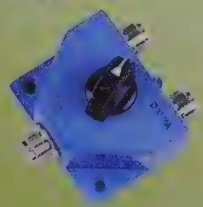
CN-101
Frequency Range: 1.8-150MHz
Forward Power Ranges: 15/150/1500W

CN-103M
Frequency Ranges: 140-525MHz
Forward Power Ranges: 20/200W

CN-103N (N-Type Conns)

NEW! POWER SUPPLY

SS-330W
Convenient, lightweight 30 amp switching supply.
30 amps continuous
Dual meters
Adjustable voltage (5--15V)
Built-in fan
Weighs less than 5 lbs.
Carrying handle

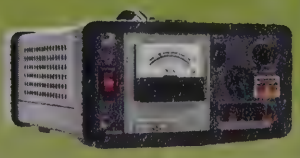


Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

CS-201
2-Position 600MHz Switch
Max. Power: 2.5kW PEP/1kW CW
Conns: SO-239

CS-201GH
2-Position 2GHz Switch
Max. Power: 1.5kW CW
Conns: Gold plated N-Type



SS-505
Lightweight switching power supply
50 Amp Continuous, 55 AMP peak
Adjustable voltage, 5-15V
Can be used for DC motors requiring peak start up voltage
Dual-use V/A meter
Built-in fan
Weight 8lbs 6 oz

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DX-70TH Compact 100W HF/6M Transceiver
Covers 160 to 6 meters with 150 kHz to 30 and 50 to 54 MHz receive with SSB, CW, AM, FM modes. Detachable face; 100 multi-function memories; Dual VFOs; Split operation; Quick offset; Narrow filter; Noise blanker; Speech processor; CTCSS for 10 and 6 meter repeaters; Full, semi or auto break-in CW; All mode squelch; Two scan modes; Separate HF and 6M antenna connections; RIT; TXIT; Selectable AGC; Dial lock; Auto antenna tuner interface. Dim: 2.3"h x 7"w x 9"d; 8.3 lbs. **$749.99**

Available Accessories
DM330MVT 30A switching power supply with meter, **DM340MVT** 30A power supply w/meters, **EBC8** Front control head bracket, **EBC9** Extra mobile bracket, **EDS5** 5' mic extension cable, **EDS6** 15' remote cable, **EDX2** 160-10M auto wire tuner, **EMS14** Desk mic, **PC25** DC cable

6M & 10M MOBILES

Common Features: 100 alphanumeric memory channels, VFO/Memory/Program scan with Busy/Timed settings and Tone scan. Tone squelch (Encode/Decode tone separately selectable), DCS, DTMF tones featuring 10 programmable memories (Auto-Dialer) and 4 tone-burst tones. Direct frequency input and control of major functions via the backlit microphone keypad. Time-out-timer; Auto-power-off; Busy-channel lockout; Theft alarm; Ignition key on/off feature (with optional cable). Cloning cable included. Dim: 5.85"w x 1.57"h x 6.83"d, 2.21 lbs.

DR-06T 6M FM Transceiver – Covers 50 to 53.995 MHz. Power: 50W (High), 20W (Mid), 5W (Low). With the optional EJ-41U TNC board, the DR-06T can be instantly switched from voice to 1200/9600bps packet. 13.8VDC @ 11A .. **$259.99**

DR-03T 10M FM Transceiver – Looks like the DR-06T. Covers 28 to 29.695 MHz. Power: 10W (High), 5W (Mid), 1~4W (Low). 12VDC @ 3A..... **$259.99**

Available Accessories:
DR-06T ONLY: EDC37 Key ON/OFF cable, **EDC43** Key ON/OFF cable for cigar socket, **EJ41U** TNC board, **EJ47U** Digital Voice modem

6M MOBILE

DR-M06TH 6M FM Transceiver – Covers 50–54 MHz FM. Selectable 20/1W output; 100 memories + CALL channel; 50 tone CTCSS encoder; Programmable repeater offset for each memory channel; Time-out timer; DTMF hand mic.; 13.8VDC @ 3A. Dim: 5.5"w x 1.5"h x 4.5"d; 1.6 lbs .. C/O **$229.99**

Available Accessories:
HK130 Hardware kit, **MB130** Mnt. bracket, **PC15B** DC cable

VHF & UHF MOBILES

DR-135TMKIII 2M Mobile Transceiver – Covers 144–148 MHz transmit with 118–135.995 MHz (AM aircraft) & 136–173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF microphone; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A. Dim: 5.58"w x 1.57"h x 6.83"d; 2.3 lbs... **$169.99**

DR-135TPMKIII – Same as 135TMKIII with addition of the TNC for 1200/9600bps packet and APRS operation..... **$269.99**

DR-235TMKIII – Covers 222–224.995 MHz TX & 216–279.995 MHz RX; 25W/10/5W out . **$249.99**

DR-435TMKIII – Covers 430–450 MHz TX & 350-511.995 MHz RX; 35/10/5W output **$269.99**

Available Accessories:
EDC37 DC cable, **EDC43** Cigarette lighter cable, **EJ41U** 1200/9600 TNC (TMKIII's only), **EJ47U** Digital board, **ERW4** PC cable, **ERW7** USB PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows programming software

Shown with optional EDS9 Separation kit

DR-635T Twin band Mobile Transceiver – Transmit coverage: 144-147.995 and 430-449.995 MHz; Receive coverage: 108-173.995 and 335-480 MHz includes VHF AM air band and FM broadcast (87.5-108 MHz). 200 alpha memories. Power: (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band receive capability (V/V, U/U, V/U and U/V) with cross-band repeat. Large, three color LCD shows status icons and alphanumeric tags. CTCSS & DCS encode/decode + 4 different tone bursts. Includes: auto power off, time out timer, tone burst, scan, lock-out, dimmer, VFO auto program, theft alarm, narrow FM, supply voltage display and remotable head. Rear fan for cool operation during transmit. The front panel is remotable via the optional EDS-9 separation kit. Advanced Digital Mode (10F3) with speech compression is provided via the optional EJ-47U board. The supplied DTMF hand microphone allows setting parameters an direct frequency entry. Includes DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) function cable and anti-theft sticker..... **$369.99**

Available Accessories:
EDS9 Separation kit, **EJ47U** Digital board, **EJ50U** TNC unit, **ERW4** PC cable, **ERW7** USB PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows prog. software

Order Now Toll Free from any AES Location

ALINCO

DM-330MVT Switching Power Supply (left) Small, lightweight but provides 30A cont., 32A peak with variable voltage (5-15 VDC). Lighted V/A meter. Rear panel high current terminals and front panel cigar and quick disconnect terminals. Dim: 6.8"w x 2.6"h x 6.5"d, 4.4 lbs.....**$179.99**

DM-340MVT Conventional Power Supply (right) - Provides 30A continuous, 35A maximum at 50% duty cycle with variable voltage (0-25 VDC). Forced-air cooled; Separate Volt and Amp meters; Large 16mm main terminals plus 2 pairs of auxiliary snap-in terminals, cigar socket and fuse holder on the front panel. Dim: 9.25"w x 6.02"h x 9.06"d, 20.7 lbs **$199.99**

MFJ LOW POWER TRANSCEIVERS

SINGLE BAND CW

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever your go. Hot superhet receiver with super-quiet FET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RIT. Full 5W power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 2.5"h x 6.5"w x 6"d; 2 lbs.

Four different models:

9015 – 15M, 5W ..... **$199.99** **9030** – 30M, 5W **$199.99**
9020 – 20M, 5W ..... **$199.99** **9040** – 40M, 5W **$199.99**

SINGLE BAND SSB

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4–6dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3 Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 2.5h" x 6.5"w x 6"d; 2 lbs.

Six different models:

9402X 2M, 7W .... **$279.99** **9420X** 20M, 20W.. **$259.99**
9406X 6M, 10W.. **$279.99** **9440X** 40M, 12W.. **$259.99**
9410X 10M, 20W . **$269.99** **9475X** 75M, 12W. **$259.99**

See Page 18 in the Price Guide under MFJ for available accessories for these models

ALINCO

AMATEUR RADIO'S VALUE LEADER™

SINGLE BAND HANDHELDS

DJ-V17T 5W 2M Handheld – Covers 144-148 MHz with 130-173.995 receive and 200 memories. Ruggedly built to IPX7 standards (can be submersed in 3 ft. depth of water for up to 30 minutes). 5W output; back-lit alphanumeric display and direct keypad frequency entry; 39 Tone CTCSS Squelch; 104 Tone Digital Code Squelch (DCS); 4 Tone Bursts; 9 DTMF Autodial Memories; Scanning; Time-out Timer. Tuning steps: 5, 10, 12.5, 15, 20, 25 and 30 kHz. A 500mW audio amp provides abundant audio. Comes with AC charger adapter, Ni-MH battery and SMA flexible antenna, belt clip and hand strap.
Dim: 2.28"w x 4.33"h x 1.43"d, 9.9 oz.....**$129.99**

DJ-V27T 5W 220 MHz Handheld – Similar to the DJ-V17T above, but covers 222-224.995 MHz with 216-249.995 MHz receive. Power: 5W **$159.99**

DJ-V47T 4.5W 440 MHz Handheld – Similar to the DJ-V17T above, but covers 430-449.995 MHz with 410-470 MHz receive. Power: 4.5W **$149.99**

Available Accessories:
EBP63 7.4V 1100mAh Li-Ion battery, **EBP64** 7.4V 1600mAh Li-Ion battery, **EBP65** 7.2V 700mAh NiMH battery, **EBP66** 7.2V 2000mAh NiMH battery, **EDC144** Rapid charger, **EDC16B** Cigarette lighter cable, **EDC36** Angle plug power cable with filter, **EDC37** DC cable, **EDH34** Dry cell case, **EDS10** Mic/speaker cable, **EDS11** Clone cable, **EMS62** Speaker/mic, **ERW4** PC cable (requires EDS10), **ERW7** USB PC cable, **ESC41** Soft case

UHF SINGLE BAND HANDHELDS

DJ-S40T Pocket-sized UHF HT – Covers 420-450 MHz; 500mW power output or 1W by using optional NiMH or external DC supply. 100 memories; One call channel and several scan modes; 38 CTCSS encode/decode tones and 4 European tone bursts; Large, easy-to-read, illuminated display; External device control feature; Comes with AA battery case, belt clip, wrist strap and flexible SMA antenna.
Dim: 2.2"w x 4.0"h x 1.2"d; 3.6 oz ..... C/O **$79.99**

Available Accessories
EBP52N 3.6V 500mAh NiMH battery, **EBP53N** 6V 500mAh NiMH battery, **EBP54N** 3.6V 1500mAh NiMH battery, **EDC105** Drop-in NiMH charger without power supply, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC93** Wall power supply for EDC105, **EDH31** Dry cell battery case, **EME12** Headset/earphone/mic w/VOX, **EME13** Headset/ear bud/mic w/VOX, **EME15** Earphone/mic w/VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic w/volume control, **ESC37** Soft case

DJ-S45T 440MHz FM HT – Rugged polycarbonate design is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz. 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Power Output: 2W with 6.0V external DC power source, approx. 1W with special order EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW at 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 or ERW-7 cable). Includes belt clip, handstrap, AA battery case and flexible SMA antenna.
Dim: 2.24"w x 3.86"h x 1.17"d; 5.7 oz **$119.99**

Available Accessories
EME6 Earphone, **ERW4** PC Cable, **ERW7** USB PC cable, **ESC40** Soft case

SINGLE & DUAL BAND HANDHELD

DJ-596T MK II

DJ-496T 440 MHz FM HT – Covers 430-450 MHz transmit and receive. 5W output; 40 multi-function memory channels; MARS/ CAP capability; Alphanumeric display; CTCSS encode and decode and DCS; S-meter; Autodialer; Computer programmable, Cable cloning capability; Back lit keypad. Dim: 4.9"h x 2.2"w x 1.6"d; 13.2 oz **$149.99**

DJ-596T MK II 2M/440 MHz Dual Band HT Covers 144-148/420-450MHz transmit and 136-174/400-512 MHz receive. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; CTCSS/DCS encode and decode; Three scan modes; Illuminated keys and display; 100 alpha memories and 9 auto-dial memories; Operates on 6-16VDC, battery charges while on ext. source **$209.99**

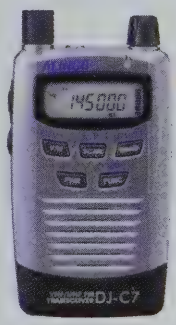
Available Accessories
EBP50N 9.6V 700mA 5W NiMH battery, **EBP51N** 9.6V 1500mA 5W NiMH battery, **EBP56N** 7.4V 1000mAh lith-ion battery, **EDC111** Charger for EBP56N, **EDC133** NiMH quick charger, **EDC16B** Cigarette lighter cable and filter, **EDC36** Angle plug power cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC88** Rapid charger, **EDC93** Wall charger with power supply, **EDH30** Dry cell battery case, **EJ47U** Digital board (DJ-596TMKII only), **EME12** Headset/earphone/mic with VOX, **EME13** Headset/earbud/mic with VOX, **EME15** Earphone/mic with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **ERW4** PC cable, **ERW7** USB PC cable, **ESC36** Soft case for EBP48N, **SW596** Windows programming software (DJ-596TMKII only)

LOW POWER 2M HANDHELD

DJ-S11T Miniature VHF HT Covers 144–148 MHz transmit; 340mW output; 20 multi-function regular memories and 1 call memory; Tone encoder and decoder; Illuminated display; Pivoting antenna. Uses 3 "AA" alkaline or NiCad batteries; Comes with wrist strap, antenna and belt clip. Dim: 3.9"h x 2.2"w x 1"d; 6.5 oz..... **$79.99**

Available Accessories
EDC78 Wall charger (not alkaline), **EDH18** 12V/5.5V DC cigarette lighter plug, **EME12** Headset/earphone/mic w/VOX, **EME13** Headset/earbud/mic w/VOX, **EME15** Ear-phone/mic w/VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic w/volume control, **ESC27** Soft case

DUAL BAND HANDHELDS



DJ-C7T Credit Card Size VHF/UHF Dual Band Micro Handheld – TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source. 200 memory channels; 5 pairs of program scan band; Priority watch; 3 types of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; TSQ and 4 European burst tones standard; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning; Battery saver.
Dim: 2.3"w x 3.8"h x 0.57"d; 3.6 oz **$169.99**

Available Accessories
EBP58N Lithium-ion battery, **EDH32** Cigarette lighter cable, **EME18** Earphone, **EME24** Earphone/microphone, **EME25** Curl cord earphone, **EMS60** Speaker/microphone, **ERW4** PC cable, **ERW7** USB PC cable, **ESC38** Soft case

DJ-V5TH VHF/UHF Dual Band FM HT – Full 2 meter and 440 Amateur band coverage. Standard high-power 700 mAh NiCad battery pack – up to 5W output; 3 output settings; Expandable receive range 76–999 MHz (cellular blocked); Split-band operation capability; Eight different tuning steps; Alpha-numeric display – up to 6 characters; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 different European tone bursts; 4 scan modes and 5 programmable scan banks; Auto-dial memories; SMA connector; Wire cloning capable; Accepts up to 13.8V DC input.
Dim: 4.5"h x 2.25"w x 1.75"d; 13 oz..... **$209.99**

Available Accessories
EBP46N 9.6V 600mAh 5W NiCad battery, **EDC16B** Cigarette light cable with filter, **EDC36** Angle plug power cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDH29** Dry cell battery case, **EME12** Headset/earphone/microphone with VOX, **EME13** Headset/ear bud/microphone with VOX, **EME15** Earphone/microphone with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **ESC35** Soft case for EBP45N/46N

ICOM HF BASE STATION

IC-718 HF All Band Transceiver – Perfect for beginners or backup rig. Covers 160–10M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/RF meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8VDC @ 20A.
Dim: 9.4"w x 3.75"h x 9.4"d; 8.5 lb.... ® **$549.99**

Available Accessories
BET 706TUNECONT Better RF tune control IC706/718, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR338** High stability crystal, **CT17** Level converter, **FL222** 1.9 kHz 455 kHz IF SSB filter, **FL257** 3.3 kHz 455 kHz IF SSB filter, **FL52A** 500 Hz 455 kHz IF CW filter, **FL53A** 250 Hz 455 kHz IF CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **OPC025D** DC cable, **OPC598** 23' extension cable (AT180), **OPC599** 7+8-pin-13-pin adapter, **PS125** 25A switching supply, **SM20** Stand mic for base station, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **SP5** Mobile Speaker, **UT102** Voice synthesizer, **UT106** DSP unit, **W4R OBF703718DIY** CW & SSB Collins Filters

HF/6M/2M BASE STATION

IC-746PRO HF/VHF All Mode Transceiver
Covers 160–10M + 6M + 2M with 0.03–60 MHz, and 108–174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-31; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; RF speech compressor; Tone squelch/scan; VOX; SmarTune™ variable speed tuning; Auto repeater offset; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A. Dim: 11.3"w x 4.7"h x 12.5"d; 19.6 lbs..... Free PS-125 ® © **$1499.99**

Available Accessories
BET IMATE Better RF accessory, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **CR338** High stability crystal unit, **CT17** Level converter, **HM36** Scanning hand mic, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Stand mic for base station, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **UT102** Voice synthesizer

® Price after mail in rebate (USA only)
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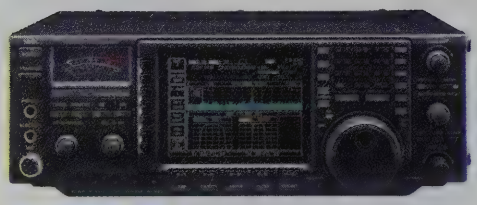
HF/6M BASE STATION



IC-756PRO III HF/50 MHz All Mode Transceiver
Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time, etc.; Screensaver.
Dim: 13.3"w x 4.3"h x 11.2"d; 21 lbs © **$2699.99**

Available Accessories
BET IMATE Better RF accessory, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **CT17** Level converter, **HM36** Scanning hand mic, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Stand mic for base station, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **UT-102** Voice Synthesizer

HIGH-END HF/6M BASE STATIONS

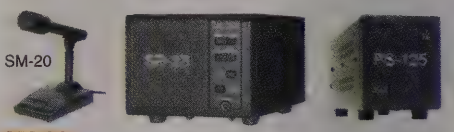
IC-7700 HF/6M Transceiver – Self-contained, top-performance, closely related to the IC-7800. Designed to be the Ultimate Contest Transceiver, employing the latest technology for the competitive edge. Two independent IC-7800-type DSP units: one for the transmitter and receiver and one for the spectrum display. Uses a single HF receiver with I/Q second mixer, offering a +40dBm 3rd-order intercept point, ultra-wide dynamic range and selectable 15, 6 and 3 kHz roofing filters. Automatic tracking preselector and relay-switched front end for strong-signal HF performance and out-of-band interference rejection. Push-pull MOSFET amplifiers work at 48VDC, providing 200W output at full duty cycle. Built-in switch-mode power supply. The 7 inch wide color TFT LCD, 800 x 480 display shows a multi-function spectrum scope and a simulated analog multi-function meter. VGA socket for external video monitor. A built-in RTTY/PSK31 modem provides a complete digimode terminal, requiring only an external keyboard. Rear-panel I/O connections and CI-V allow use of a second Icom transceiver. Digital voice recorder. DSP noise blanker. USB memory drive socket.
Dim: 16.7"w x 5.9"h x 17.1"d; 52.9 lbs.. **$6299.99**

Available Accessories
BET IMATE Better RF message accessory, **CT17** Level converter, **HM36** Scanning hand mic, **SM20** Stand mic for base station, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters

IC-7800 HF/50 MHz Transceiver – The Icom flagship radio that is a fusion of 40 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching & three roofing filters. The ultimate in performance, function, and quality without compromise. 1.8 to 29.7 + 50 to 54 MHz TX, 0.03 - 60 MHz general RX; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, Dual watch; RIT and ΔTX; Separate 50 MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in supply (85–265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Mic. equalizer; Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope S-meter, and RTTY/PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping); Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External CRT display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug.
Dim: 16.6"w x 5.9"h x 17.1"d; 55 lbs . **$10599.99**

Available Accessories
BET IMATE Better RF message accessory, **CT17** Level converter, **HM36** Scanning hand mic, **SM20** Stand mic for base station, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters

ICOM ACCESSORIES



SM-20 Electret Microphone – Up-Down tuning; PTT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin plug. Compatible with the IC-7800, IC-7700, IC-746, 746Pro, 756, 756Pro, 756Pro II & III, 775, 781, 820, 821 & 910H.
Requires OPC-589 with IC-706 & IC-7000 **$199.99**

SP-23 Speaker w/Audio Filters – Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. headphone jack; Metal construction; Tilt-stand.
Dim: 5.75"w x 4.25"h x 11.2"d; 3.6 lbs ... **$199.99**

PS-125 Base Station Power Supply
Provides full 25 Amps of power for Icom radios.
Dim: 4.4" w x 3.7"h x 11.3"d; 6.6 lbs..... **$299.99**

The pattern of perfection continues...

IC-7700

IC-7800 lineage.

Ergonomically sound.

High end performance.

Dependability you can count on.

Ideal addition to your contest station.

ICOM

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ICOM

HF/6M QRP RADIO

IC-703 PLUS HF QRP Transceiver – For home, shack, mobile DXing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but HF + 6M without VHF/UHF. Built-in, relay-type automatic HF antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options.
Dim: 6.5"w x 2.w"h x 7.875"d; 4.4 lbs. ® **$679.99**

Available Accessories
AH2B Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **AH703** 40/20/15/10/6 20W 4.6' antenna, **BC155A** Battery charger/BP228, **BP228** 9.6V 2800mAh external NiCad, **CT17** Level converter, **FL222** 1.9kHz 455kHz IF SSB filter, **FL257** 3.3kHz 455kHz IF SSB filter, **FL52A** 500Hz 455kHz IF CW filter, **FL53A** 250Hz 455kHz IF CW filter, **HM154T** TTP mic, **LC156** Back pack carrying case, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB65** Mtg base platform, **MB72** Carrying handle, **OPC1229** Extra DC cord, **OPC1248** IC703 to PS125 cable, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **RMK706** Remote mtg kit, **SM20** Stand mic for base station, **SP10** Slim-line ext. spkr, **UT102** Voice synthesizer

HF/VHF/UHF RADIO

IC-706 MK II-G Compact HF/VHF/UHF All Mode – Covers 160–10M + 6M, 2M and 70cm; with broadband 0.03–200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160–6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; 13.8V DC @ 20A. Dim: 6.6"w x 2.3"h x 7.9"d; 5.5 lbs Free RMK-706 ® **$899.99**

Available Accessories
BET 706TUNECONT Better RF IC706 tune control, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR282** Stability crystal, **CT17** Level converter, **FL100** 500 Hz 9 MHz IF CW filter, **FL101** 250 Hz 9 MHz IF CW filter, **FL103** 2.8 kHz 9 MHz IF SSB filter, **FL223** 1.9 kHz 9 MHz IF SSB filter, **FL232** 350 Hz 9 MHz IF CW/RTTY filter, **HM154T** TTP microphone, **LC156** Back pack carrying case, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB65** Mounting base platform, **MB72** Carrying handle, **OPC025D** DC cord, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC598** 23' extension cable for AT180, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **PS125** 25A switching power supply, **RMK706** Remote mounting kit, **SM20** Stand mic for base station, **SP10** Slim-line external speaker, **UT102** Voice synthesizer, **W4R ANTBOSSII** W4RT Interface, **W4R OBPUNIV** Speech compressor

HF/VHF/UHF RADIO

IC-7000 All band Multimode Mobile Transceiver Covers HF/6M/2M/440 MHz with .03-199 MHz RX; 503 alpha memories; Power: 100W (HF+6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RIT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX, Full break-in CW with adjustable pitch. Comes with backlit remote mic, spare fuses, key plug and DC power cable. 13.8VDC @ 22A. Dim: 6.56"w x 2.59"h x 7.09"d; 5.1b ..... Free RMK-7000 © **$1299.99**

Available Accessories:
BET 7000SCDRCONT Better RF IC7000 screwdriver antenna controller, **BET 7000TUNECONT** Better RF IC7000 tune control, **AH2B** 40-6M whip with mount (use tuner), **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF-6M auto coax antenna tuner, **CT17** Level converter, **HM154T** TTP Mic., **LC156** Back pack carrying case. **MB105** Remote head bracket, **MB106** Carry handle, **MB62** Main unit mounting bracket, **MB65** Mounting base, **OPC1443** 11.5' remote cable, **OPC1444** 16' remote cable, **OPC1457** DC cable, **OPC589** 8-pin microphone jack adapter cable, **OPC598** 23' extension cable; AT180, **OPC599** 7+8-pin to 13-pin adapter, **OPC742** 13-Pin cable, **RMK7000** Remote mounting package (MB62/MB105/OPC1443), **SM20** Stand mic. for base stations (OPC-589 required), **SP10** Slim-line external speaker, **W4R ANTBOSSII** W4RT Interface

VHF/UHF DUAL BAND BASE STATION

IC-910H VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM tribander. Covers 144-148, 430-450 and 1240-1300 MHz (optional). Output: 5-100W (2M), 5-75W (440 MHz), 10W (1.2 GHz optional); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch & Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A. Dim: 9.5"w x 3.6"h x 9.4"d; 10 lbs..... **$1279.99**

Available Accessories
AG25 2M mast mount preamp, **AG35** 430 mast mount preamp, **CR293** High stability crystal unit, **CT17** Level converter, **FL132** 500 Hz main receiver CW filter, **FL133** 500 Hz sub-band receiver CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **PS125** 25A switching power supply, **SM20** Stand mic for base stations, **SP10** Slim-line external speaker, **UT102** Voice synth., **UT106** DSP unit, **UX910** 10W 1.2 GHz module

SINGLE BAND MOBILE

IC-V8000 2M FM Transceiver – Big 75W power output. Covers 144–148 transmit with 136-174 MHz receive. 207 alphanumeric memory channels including one call and six scan edge channels; Each memory channel stores a six character name, tone frequency, skip info, and more; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Large cooling fan on the back and large cooling fins; Selectable Green or Amber display; Includes HM-133V remote control microphone.
Dim: 5.9"w x 2"h x 5.9"d; 2.22 lbs..... ® **$179.99**

Available Accessories:
CSV8000 Windows software, **OPC1132** 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **V8000MMB** Mobile bracket

DUAL BAND MOBILE

IC-208H 2M/440 Dualband Mobile – Covers 144-148 and 430-450 TX with 118-173, 230-549, 810-999 MHz (cell blocked) wide band RX. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alpha memory channels; Improved Dynamic Memory Scan (10 banks), 2–100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control mic. included. Dim: 5.56"w x 1.56"h x 7.31"d; 2.65 lbs ..... ® © **$254.99**

Available Accessories:
CS208 Windows cloning software, **MB58** Remote controller bracket, **MB65** Mounting base platform, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **OPC601R** 23' separation kit, **SP10** Slim-line external speaker

® Price after mail in rebate (USA only)
© Price after instant coupon; rebates, coupons and freebies may expire 6/30/08. Please call/web for current price & promotions.

SINGLE BAND MOBILE

IC-2200H 2M FM Transceiver with D-Star Capability – A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Improved receive IMD helps provide protection from excessively strong signals such as pagers. Power levels: 65, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alphanumeric memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCS encode/decode plus tone scan functions and "pocket beep"; Three-way Priority watch; 24 DTMF autodial memories; Squelch delay; GPS, NMEA compatible (GPS not supplied). Includes remote control microphone, DC power cable, mobile mounting bracket and microphone hanger. Dim: 5.5"w x 1.56"h x 5.25"d; 2.75 lbs. Ⓡ **$139.99**

Available Accessories:
CS2200H Windows™ software, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Ext. Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **UT118** D-Star Digital unit

DUAL BAND MOBILE

IC-2820H 2M/440 Analog Dual Bander with D-Star and GPS Capability – Covers 144-148 and 430-450 MHz with wideband receive (Left Band) 118-549.95 / (Right Band) 118-173.995, 375-549.995 and 810-990.990 MHz (cellular blocked). V/V and U/U simultaneous receive, 522 memory channels. Weather Alert. Power: 50/15/5W out on both bands. Removable front panel, built-in CTCSS Encode/Decode, selectable amber/green display, PC compatibility. Two antenna jacks support diversity reception in the 127, 136, 146, 375, 440 and 500 MHz bands (two antennas required). Diversity compares signal strength from the two antennas, and automatically selects the strongest signal to hear. D-STAR upgradable and DV (digital voice) with the optional UT-123. Packet ready (9600 BPS – 6-pin DIN). Includes the full-function backlit HM-133 remote DTMF hand microphone, mounting bracket, power cord and spare fuses. Supplied with OPC-1663 and OPC-1712 separation cables.
Dim: 5.9"w x 1.65"h x 7.4"d, 3.3 lbs..... **$649.99**

Available Accessories
CS2820 Windows cloning software, **MB65** Mounting base, **OPC1132** 9.8' DC cable, **OPC1529R** Data communications cable, **OPC347** 23' DC cable, **OPC440** 16.4' Microphone extension cable, **OPC441** 16.4' Speaker extension cable, **OPC474** Radio to radio clone cable, **OPC478** PC RS-232 cable, **OPC478U** PC USB cable, **OPC589** 8-PIN microphone jack adapter cable, **SP10** Slim-line external speaker, **UT123** D-Star DV mode and GPS receiver

Ⓡ Price after mail in rebate (USA only)
© Price after instant coupon; rebates and coupons may expire 6/30/08. Please call/web for current price and promotions.

ANALOG & D-STAR DUAL BAND MOBILE

ID-800 2M/440 Dual Bander FM & D-Star Features D-Star Digital Voice Capability and supports 20 character short text messaging with an on screen display. Detachable control head with separation cable; wideband receive; Three power settings: 55/15/5W (2 meters), 50/15/5W (440 MHz); Built-in CTCSS decode/encode with tone scan; PC compatible, 9600 BPS packet ready; 500 alpha memories, 16 DTMF memories. ... Ⓡ © **$559.99**

Available Accessories:
CSD800 Cloning software, **OPC1132** 9.8' DC cable, **OPC1384** RS232 C data cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic. extension cable, **OPC441** 16.4' speaker extension cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC601R** 23' separation cable, **SP10** Slim-line ext. speaker

1.2 GHZ D-STAR RADIO

ID-1 10W 1.2 GHz FM & D-Star Transceiver
Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes alphanumeric memories, CTCSS encode/decode and scanning, Full PC control via USB port and supports 10 BASE-T ethernet for 128K data operation..... Ⓡ **$979.99**

Available Accessories
OPC1132 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic. extension cable, **OPC441** 16.4' Speaker extension cable, **SP10** Slim-line external speaker

D-STAR DUAL BAND HT

IC-92AD Submersible FM & D-Star Dual Band HT
Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: (VFO-A) 0.495-823.990, 849-868.990 and 894-999.990 MHz; (VFO-B) 118-174 and 350-470 MHz. Cellular blocked. 1304 memory channels including 100 program scan and 4 call channels. Weather channel with weather alert. Dualwatch capability allows receive on two bands simultaneously (including the same band). 5 Watts output with four selectable power levels. Large backlit dot-matrix multi-line display with simple bandscope. Backlit keypad entry and navigation. Voice recorder with one touch replay.
When using the optional HM-175GPS GPS Speaker microphone, the IC-92AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation. Optional PC remote control capability. Built military tough, submersible to 1 meter depth for 30 minutes.
Dim: 2.3"w x 4.4"h x 1.3"d, 0.7 lb..... **$579.99**

Available Accessories:
AD92SMA SMA - BNC adapter, **BC177** Desk rapid charger, **BP256** 7.4V 1620mAh lith-ion, **BP257** AA battery case, **CP19R** Cigarette cable with filter, **HM131** Speaker/mic/earphone jack/clip, **HM174** Waterproof Speaker/mic, **HM175GPS** Waterproof Mic/GPS unit, **HM75A** Remote control mic, **HS85** Headset with VOX, **LC168** Carrying case, **OPC1797** Plug adapter cable, **OPC254L** Right angle mini, **OPC474** Radio-to-radio clone cable, **RS92** Remote control PC software (RS-232 cable), **SP13** Earphone

ICOM

SINGLE BAND HT

IC-V82 2M High Power HT with D-Star Capability – 7W output @ 7.2V DC; 6.0-10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice & slow data communication. Built in CTCSS/DTCS; Auto low power/power saver (30mA drain); 200 memories (10 memory banks); Auto repeater function; Backlit display; PC cloning capability; NOAA weather channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1"w x 5.5"h x 1.4"d; 13.8 oz... Ⓡ **$119.99**
IC-U82 – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W ..... Ⓡ **$119.99**

Available Accessories
AD101 Battery adapter for BP211 and BC119N01, **AD9411** Adapter cup for BC119N01, **BC119N01** Desk charger, **BC144N** Rapid desk charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAH 5.5W battery, **BP210N** 7.2V 1650mAH 5.5W battery, **BP222N** 7.2V 600mAH 5.5W battery, **CSV82** cloning software, **HM128L** Rectangle plug earphone + mic, **HM158L** Rectangle speaker/mic/ear-jack/clip, **HM46** Slim-line speaker, **HM54** Heavy duty speaker, **HM75A** Remote control mic, **HS85** Headset w/VOX, **HS94** Earhook headset w/boom mic, **MB103** Spring belt clip, **MB86** Swivel belt clip, **OPC474** Cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **SP13** Earphone, **UT108** DTMF decoder unit, **UT118** D-Star Digital unit, **VS1L** PTT/VOX unit

DUAL BAND HT

IC-91A Dual Band HT with D-Star Capability – Transmits on 2 meters and 440 MHz. The "A" band (top) offers wide reception from 495 kHz to 999.990 MHz (excluding cellular) in FM/WFM/AM modes. The "B" band (bottom) receives from 118.000 to 174.000 MHz and 350.000 to 470.000 MHz in FM/FM-N/AM/DV modes. Simultaneous receive of a combination of the "A" and "B" bands allows V/V, V/U and U/U operation. Tuning steps include: 5, 6.25, 8.33 (only in air band), 9 (AM broadcast), 10, 12.5, 15, 20, 25, 30, 50, 100, 125 and 200 kHz. Alpha memories: 1304. Power: 5/0.5W on either band. Analog/Digital upgradable with optional UT-121 Digital Voice Unit. In DV mode, you can record 30 sec. of audio into memory Plays a recorded message (up to 10 sec.) in response to a call directed to the user's callsign. Audio messages can even be forwarded. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger.
Dim: 2.4"w x 4.2"h x 1.5"d; 10.6 oz..... **$299.99**
IC-91AD D-Star Ready Dual Band HT – The IC-91A with UT-121 DV Unit installed..... **$399.99**

Available Accessories
AD92SMA SMA - BNC adapter, **BC139** Desk rapid charger, **BP216** AA battery case, **BP217** 7.4V 1300mAh lith-ion, **CP19R** Cigarette cable with filter, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM75A** Remote control mic, **HS85** Headset with VOX, **LC163** Carrying case, **OPC474** Radio-to-radio clone cable, **OPC782** Plug adapter cable, **RS91** Remote control PC software (RS-232 cable), **SP13** Earphone, **UT121** D-Star Digital unit (IC-91A only)

ICOM

SINGLE BAND HTS

IC-V8 SPORT 2M FM HT – None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down & Rotary controls; CTCSS/DTCS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Comes with AA battery case.

Dim: 2.13"w x 5.2"h x 1.4"d; 12.3 oz. **$99.99**

Available Accessories

AD101 Battery adapter for BP211 and BC119N01, **AD9411** Adapter cup for BC119N01, **BC119N01** Desk charger, **BC144N** Rapid Desk Charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAh 5.5W battery, **BP210N** 7.2V 1650mAh 5.5W battery, **BP222N** 7.2V 600mAh 5.5W battery, **CP17L** Right angle cigarette cable for charger, **CSV8** Cloning software, **HM128L** Earphone + mic, **HM158L** Rectangle speaker/mic/earphone jack/clip, **HM46L** Slim-line speaker mic with right angle plug, **HM54** Heavy-duty speaker mic, **HM75A** Remote control mic, **HS51** Headset/VOX, **HS94** Earpiece headset, **LCF3GSWIVEL** Leather case with swivel, **MB103** Spring loaded belt clip for N-Series battery, **MB74N** Spring loaded belt clip, **MB86** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC515L** Right angle DC cable for charger, **SP13** Earphone, **UT108** DTMF decode unit, **VS1L** Right angle VOX-PTT unit for HS94

IC-V85 2M Handheld Covers 144-148 MHz with extended receive 136 to 174 MHz and up to 7W output. 107 memory channels including 6 scan edge and 1 CALL. Multiple scanning modes, 16 DTMF memory channels. Built-in CTCSS/DTCS Encode and Decode. Weather channel alert, backlit alphanumeric display, repeater lock-out, auto-repeater function, time-out timer and auto-power off. Easy-to-use ergonomic controls. Pager/DTMF decode function available with optional UT-108.

Dim: 2.2"w x 4.34"d x 1.35"d; 12.5 oz.... **$199.99**

Available Accessories

BP226 Battery case, **BP227** 7.2V 1700mAh lith-ion battery, **CP19R** Cigarette cable w/filter, **CSV85** Cloning software, **HM128L** Right angle earphone & mic, **HM158L** Right angle speaker/mic/earphone/clip, **HM75A** Remote control mic, **HS85** Headset w/VOX, **HS94** Ear-piece headset, **LC167** Carrying case, **OPC474** Radio-to-radio clone cable, **OPC478U** PC USB cable, **SP13** Earphone, **UT108** DTMF decoder unit, **VS1L** Right angle VOX-PTT unit

® Price after mail in rebate (USA only); rebates may expire 6/30/08. Please call/web for current price and promotions.

DUAL BAND HT

IC-T7H SPORT 2M/440 MHz FM Dual Band HT – Comes with AA battery case that gives it 2W output. Up to 5W with optional 9.6V/650mAh battery or 6W with optional 13.5V DC power cable; TX: 144-148 MHz & 440-450 MHz; RX: 118-174 MHz & 400-470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; PC Programmable.

Dim: 2.3"w x 4.8"h x 1.1"d; 14.3 oz. **$169.99**

Available Accessories

BC110A wall charger, **BC119N11** NiCad/NiMH desk charger, **BP170** Battery case, **BP172** 4.8V 950mAh battery, **BP173** 9.6V 600mAh battery, **BP180** 7.2V 600mAh battery, **CP12** Cigarette cable with filter, **CP12L** Right angle cigarette cable with filter, **CSWHH4** Windows software with cable, **FA1443B** 2M/440 duck, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM54** Heavy-duty spkr mic, **HM75A** Remote control mic, **HS10** Boom mic/headset, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC137** Case for T7H with BP173/180, **NCP1** Nylon chest pack, **OPC254L** Right angle mini DC power cable, **OPC474** radio clone cable, **OPC478** PC RS232C cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

DUAL BAND MICRO HT

IC-P7A Dual Band Micro HT – Covers 2M and 440 MHz FM. Power Output: 1.5W (2M) & 1.0W (440 MHz). Wideband receive from 495 kHz to 999.99 MHz (less cellular) in AM, FM and FM-W modes. Includes AM/FM/SW broadcasts and Weather Channels with Alert. Memories: 1,000 regular channels, 50 band scan edges and 200 auto memory write channels. The regular memory channels can be grouped into 18 banks of 100 channels. Alphanumerics allow naming channels and banks with 6-digit letters and numbers and can display the channel and bank names for easy recognition. Multiple scanning types, CTCSS and DTCS tones for repeater operation, or tone squelch operation and pocket beep for quiet stand-by. Ergonomically designed and features the minimum number of buttons to provide quick and easy operation. Includes flexible SMA antenna, wrist strap, Li-ion battery pack, rapid 3-hour battery charger and AC adapter.

Dim: 1.85"w x 3.1"h x 1.1"d; 5.64 oz. ® **$229.99**

Available Accessories

AD92SMA SMA – BNC adapter, **BP243** 3.7V 1800mAh Lith-Ion Battery pack, **CP21LR** Cigarette cable with filter, **CSP7** Windows cloning software, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **LC161** Carrying case, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232 serial cable, **OPC478U** PC USB serial cable, **OPC782** Plug adapter cable, **SP13** Earphone

TRIBAND HT

IC-T90A 6M/2M/70cm FM Handheld – Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOSFET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Pre-programmed with TV frequencies. Unique WX Alert feature constantly checks local active weather station for alert tone. If alert occurs, the HT automatically switches to the WX channel and beeps. 555 alphanumeric memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Over-sized buttons for easy operation. Optional PC software for memory, alphanumeric, scan list and parameter customizing.

Dim: 2.28"w x 3.44"h x 1.16"d; 8.5 oz ® **$239.99**

Available Accessories

AD92SMA SMA – BNC adapter, **BC139** Desk rapid charger, **BP216** AA battery case, **BP217** 7.4V 1300mAh lith-ion, **CP19R** Cigarette cable with filter, **CST90A** Windows cloning software, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM75A** Remote control mic, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC152A** Carrying case, **MB83** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

ICOM HT ACCESSORIES

HM-75A – Remote control mic..... **$70.99**
HM-131 – Speaker/mic/earphone..... **$38.99**
HS-94 – Ear-piece headset..... **$24.99**
HM-128 – Earphone and microphone . **$25.99**
CP-12L – Right angle cig. cable w/filter. **$36.99**
AD-92SMA – SMA-BNC adapter **$16.99**

MORE ICOM HT ACCESSORIES ON PAGES 13 & 14 IN PRICE GUIDE

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Go rugged. Go GPS.

IC-92AD • 2M/70CM

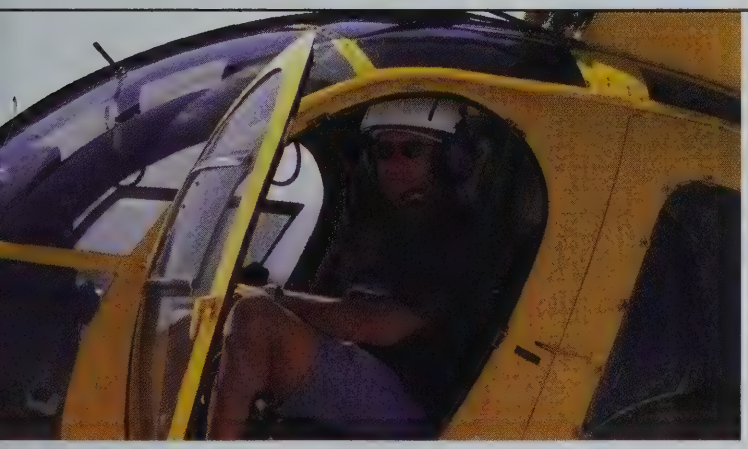
Ideal for search and rescue operations, this top-of-the-line digital dual-bander is built military rugged, submersible*, and comes with a powerful Li-ion battery. Yet the D-STAR ready 92AD is also a world-class, easy-to-use analog rig. Get the best of both worlds! Whether it's a casual rag chew or a serious mission, the 92AD is built to handle it!

Go to work.

IC-91A/AD • 2M/70CM

D-STAR ready (91AD) or upgradeable (91A), this rugged analog AND digital performer offers dualwatch RX and more. A one touch reply button is all it takes to respond to a digital calling station. Yup, wideband RX, too. (0.5–1000 GHz)**

Go anywhere.



IC-T7H Sport • 2M/70CM

Icom's T7H Sport is a tried-and-true favorite, with alkaline power case convenience right out-of-the-box, or go for up to 6 full watts of power (VHF and UHF) with optional 13.5V. Simple yet classic one-handed operation. All for a most affordable price.

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*IPX7: tested to survive after being under 1 meter of water for 30 minutes.
**Frequency coverage may vary. Refer to owner's manual for exact frequency specs.
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KENWOOD
Listen to the Future

New RC-D710

The RC-D710 is a standalone 1200/9600 bps TNC with APRS firmware

KENWOOD
Listen to the Future

www.kenwoodusa.com

TM-G707A

TM-V7A

TM-D700A

With the supplied accessories the RC-D710 is a full upgrade to the TM-V71A. The TM-V71A will have full functionality of the TM-D710A by exchanging the TM-V71A panel with the RC-D710.

This is where it gets interesting!

PG-5J connection kit makes the RC-D710 a complete standalone APRS/TNC for your current radio. This option allows connectivity with previous and current Kenwood models* as an external modem.

Compatible models include: TM-D710A / TM-V71A / TM-D700A / TM-G707A / TM-V7A / TM-733A / TM-255A / TM-455A

KENWOOD U.S.A. CORPORATION
Communications Sector Headquarters
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024
Customer Support/Distribution
P.O. Box 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
Customer Support: (310) 639-4200 Fax: (310) 537-8235

www.kenwoodusa.com
ADS#05708

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Communications Equipment Division
Kenwood Corporation
ISO9001 certification

KENWOOD
Listen to the Future

KENWOOD SKYCOMMAND

TURN IT ON!

Kenwood SkyCommand has FCC approval.

- Allows Global communication through remote operation on HF frequencies at home or in the field utilizing Kenwood's TS-2000 series transceivers.
- Kenwood's TH-D7A(G) or TM-D710A required for remote use.
- Perfect for use in hurricane or tornado zones, as well as Search and Rescue areas for Long Distance Communications when other normal modes of communications are out.
- A great tool to monitor propagation while doing other things at home!
- Step by step setup and programming taking only minutes.
- No software or computer required!
- Ease of use.

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www.kenwoodusa.com
ADS#07708

ISO9001 Registered

HF/6M RADIO

TS-480HX HF/6M All-Mode Transceiver Covers HF/6M, including 60M and receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two 22A power supplies), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Full range of CW features; Auto tune; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Optional IF filters available; PSK31 compatible; Packet cluster tune (with TM-D700A or TM-710A); PC-based control. Dim: 7.06"w x 2.38"h x 10.19"d; 7.05 lbs. (main unit), 7.06"w x 2.94"h x 1.44"d; 1.1 lbs. (control head) ..... © **$1094.99**

TS-480SAT – 100W version of the HX. Includes built-in automatic antenna tuner..... © **$989.99**

Available Accessories

E30348905 6' DC cable, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB480** Carry bracket w/handle, **MC43S** 8-pin hand mic, **MC47** Multi function 8-pin hand mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **MJ88** Modular/8-pin adapter, **PG20** 22' DC cable, **PG4Z** 13' panel extension kit, **SO3** TCXO unit, **SP23** Speaker, **SP50B** Mobile speaker, **VGS1** Voice guide/storage unit, **YF107C** 500 Hz CW filter, **YF107CN** 270 Hz CW filter, **YF107SN** 1.8 kHz SSB filter

HIGH END HF/VHF/UHF RADIO

TS-2000 HF/VHF/UHF All Mode Transceiver Offers 3 platforms: (1) A traditional transceiver with full function front panel (TS-2000), (2) the high-tech looking "silver box" version with computer controlled software and no controls (TS-B2000), or (3) TS-2000 with 1.2 GHz (TS-2000X). 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm, 1.2 GHz and HF RX ..... © **$1594.99**

TS-B2000 HF/VHF/UHF All Mode Transceiver TS-2000 but does not have front panel controls or LCD display. Includes ARCP-2000 ... © **$1399.99**

TS-2000X HF/VHF/UHF All Mode Transceiver TS-2000 w/1.2 GHz ..... © **$2064.99**

Available Accessories

ARCP2000 PC/radio control software (included with B2000 model), **DRU3A** Digital recording unit, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB430** Mobile mounting bracket, **MC43S** 8-pin hand mic, **MC57DM** Lit TTP mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **PG2Y** 13' DC cable, **PG2Z** DC cable, **RC2000** Remote face plate mobile kit, **SP23** Speaker, **VS3** Voice synthesizer

KENWOOD

SINGLE BAND MOBILE

TM-271A 2M FM Transceiver – Delivers powerful mobile performance with 60W output and other great features such as multiple scan functions and memory names. Covers 144-148 MHz transmit with 136–174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset **$169.99**

Available Accessories

MJ88 Modular/8-pin adapter, **PG2N** DC cable, **PG5D** PC interface cable, **SP50B** External mobile speaker

DUAL BAND MOBILE

TM-V71A 2M/440MHz Dual Bander – Covers 144-148 and 430-450 MHz with 118-524 and 800-1300 MHz receive (cell blocked). Dual Display with dimmer. Visual band scope. Weather alert and 1000 multi-function memory channels (10 memory scan banks) with alpha tags up to six characters. Call channel. Ten dedicated EchoLink® memory channels to communicate over the internet, using VoIP technology. Multiple scanning features. Power levels are 5/10/50W on both bands. Includes: Dual receive (V+V, U+U), scanning, weather alert, password and cross-band repeater operation. CTCSS, DCS and tone Burst encode/decode. PL Decode/Encode Automatic repeater offset. Large green or amber display. The radio's controls are very logical and feature separate volume/squelch for bands A and B. Digital voice recorder option. Data jack for external TNC. Dual audio outputs on rear panel. Includes: MC-59 (Up-Down and DTMF) hand microphone, DC power cable, fuse, main unit mounting bracket, microphone hanger and instruction manual. Free MCP-2A programming software is available for download at www.kenwoodusa.com. Dim: 5.5"w x 1.7"h x 7.1"d; 3.3 lbs..... **$399.99**

Available Accessories

DFK3D Front panel kit, **MJ88** Modular to 8 pin microphone plug adapter, **PG2N** Extra DC cable, **PG5A** Packet data cable, **PG5F** Extension cable kit, **PG5G** PC serial programming cable [DB9], **PG5H** PC interface cable kit, **PG5J** Interface kit for RCD710, **RCD710** TNC/APRS control head, **SP50B** External mobile speaker, **VGS1** Voice guide and storage unit

© Price after instant coupon, coupons may expire 5/31/08. Please call/web for current price and promotions.

DUAL BAND MOBILE w/TNC

TM-D710A 144/440 MHz Dual Band Data Communicator – Many more features than its predecessor, the popular TM-D700A. Covers 144-148 and 430-450 MHz TX with 144-148 and 430-450 RX plus 118-524 MHz (Band A), 136-524 MHz (Band B) and 800-1300 MHz (less cellular). Dual receive, even on same band; NOAA weather alert; 1000 memory channels. MCP compatible with the ARRL Travel Plus® CD. Full 50W output on both VHF and UHF. Key features include: internal clock for APRS® (Automatic Packet/position Reporting System) time and date stamp, **APRS functions:** Sort; Filter, QSY; Decay algorithm; Proportional pathing; Speed and altitude beaconing, Weather beaconing with Peet Brothers® and Davis® weather stations; Voice alert. EchoLink ready with ten dedicated channels; Built-in sound card interface; NMEA 0183 GPS I/O port – can employed as part of Kenwood's *Skycommand System II+* when used with the TS-2000 series. Selectable orange or green screen background.
Dim: (panel) 6.24"w x 2.81"h x 2.24"d, (body) 5.60"w x 1.76"h x 6.32"d; 3.3 lbs **$599.99**

Available Accessories

MJ88 Modular to 8 pin microphone plug adapter, **PG2N** Extra DC cable, **PG5A** Packet data cable, **PG5F** Extension cable kit, **PG5G** Programming interface kit, **PG5H** Computer interface kit, **SP50B** External mobile speaker, **VGS1** Voice guide and storage unit

SINGLE BAND HANDHELD

TH-K2AT 2M FM HT 5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; PC programming; Charges 3x faster than previous models with its high-capacity NiMH battery.
Dim: 5"h x 2.4"w x 1.1"d; 12.5 oz..... **$139.99**

Available Accessories

BT14 Six "AA" battery holder, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KHS26** Lapel clip mic/earphone PC, **KSC24** Rapid charger, **PB43N** 7.2V 1100mAh NiMH battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4Y** 9 pin programming cable, **SC54** Soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

KENWOOD

DUAL BAND HT w/TNC

TH-D7A(G) 2M/440 MHz **Dual Band Data Communicator** – Equipped with a built-in TNC for simple packet operation or with a GPS as a APRS™ station that reports position, speed and heading. Use for APRS™ messaging to send up to 45 characters without a PC. Power: 5.5W output @ 13.6V DC; Coverage: **(2M)** TX: 144–148 MHz, RX: 118–174 MHz, **(440 MHz)** TX: 430–450 MHz, RX: 400–480 MHz. 200 memories; Station list stores data in up to 40 memory channels; 1200 & 9600 baud TNC; Grid square locator display; Dual receive on same band for voice and data (VHF only); 16 backlit keys; CTCSS encode/decode; MIL-SPEC 810C/D/E water resistant; 10 channel DTMF phone and auto patch memories; TM-V7A, TM-742D, TM-V71A & TM-D710A DTMF remote control; Audible emergency signal; Auto message response; Data band settings.
Dim: 4.7"h x 2.3"w x 1.5"d; 12 oz..... **$344.99**

Available Accessories
BC19 Rapid charger, **BT11** Four "AA" battery holder, **HMC3** VOX/boom mic headset, **J29063113** Extra belt clip, **KHS26** Lapel clip mic/earphone PC, **PB39** 9.6V 600mAh 5W battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4W** PC software and cable, **SC47B** Black soft case, **SC47OR** Orange soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

TRI BAND HANDHELD

TH-F6A FM Tri Band HT Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; 5W output with 7.4V lithium-ion battery; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Automatic simplex checker; Wireless remote control function; ATT (attenuator) on/off; Battery indicator; Internal VOX; MCP programming software via www.kenwood.net (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, SMA antenna, hand strap, PB-42L 7.4V 1550mAh lithium-ion battery pack, AC adapter.
Dim: 3.4"h x 2.3"w x 1.2"d; 8.8 oz **$329.99**

Available Accessories
BT13 AA battery case, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KHS26** Lapel clip mic/earphone PC, **PB42L** 7.4V 1550mAh lith-ion battery, **PG2W** DC cable, **PG3J** Cigarette cord w/filter, **PG4Y** 9 pin programming cable, **SC51** Softcase with swivel belt clip, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic w/remote control, **SMC34** Speaker mic w/volume function keys, **WR2** Water resistant bag

KENWOOD ACCESSORIES FOR BASE, MOBILE AND HANDHELD RADIOS

BASE MICROPHONES

MC-60A Desktop Microphone – Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Requires two "AA" batteries..... **$149.99**

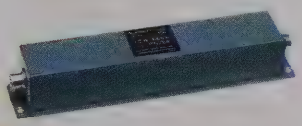
MC-90 DSP Compatible Desk Microphone – It is supplied with two interchangeable heads. One has a flat response for good overall performance. The other offers exceptional clarity and a characteristic that peaks at around 3 kHz, perfect for DX. A 3-position switch on the base tailors the low-range cutoff frequency to suit the operator. Includes 6 ft coiled cord with 8-pin plug..... **$249.99**

MJ-88 Modular to 8-pin mic adapter..... **$32.99**

HANDHELD MICROPHONES

SMC-34 Speaker mic with 3 function keys & volume control..... **$32.99**
SMC-33 Remote control speaker mic..... **$65.99**
KHS-26 Clip microphone w/earphone... **$24.99**
HMC-3 Head set (VOX & PTT) **$48.99**
SMC-32 Speaker microphone..... **$52.99**

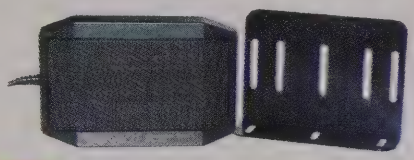
LOW-PASS FILTER



LF-30A Low-Pass Filter – Use with 160-10M transceivers to suppress TVI causing harmonics. Provides a 30 MHz cutoff and >90dB attenuation from 90–300 MHz. Power rating: 1000W SSB. Insertion loss: <0.5dB @ 30 MHz.
Dim: 9.6"w x 2"h x 1.5"d; 1.2 lbs..... **$64.99**

MOBILE SPEAKERS

KES-5
Mobile speaker
Heavy duty, meets Military Standards 810C, D, E, F for low pressure, high and low temperature, temperature shock, solar radiation, humidity, salt fog, dust, vibration and shock. This 4 ohm speaker handles 40W of power, making it great for emergency and other vehicles requiring loud and clear audio. Includes a metal bracket to support the speaker from below or above, and attached cable without a connector so you can install your own.
Dim: 5.1"w x 5.1"h x 3"d; 1.8 lbs..... **$59.99**



SP-50B Communications Speaker – Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated to 1.5 watts with a 300-4000Hz frequency response.
Dim: 4.8"w x 3.2"h x 1.4"d; 10 oz. **$55.99**

BASE SPEAKER

SP-23 Base Speaker – This versatile 8 ohm speaker features a metal cabinet with flip-out tilt bar. It houses a 3 in. speaker rated at 1W with a 300-5000 Hz frequency response. Includes a 3 ft cable.
Dim: 4.8"w x 3.75"h x 9.25"d; 2.8 lbs..... **$89.99**

HEADPHONES

HS-5 Deluxe Headphones
Specifically designed for communications use. Natural sound and low pressure permits long hours of fatigue free listening. Replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise.
Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response: 150-4000Hz, 8 ohms. Weight: 13 oz **$79.99**

HS-6
Lightweight Headphones
Response: 100-10,000 Hz
Impedance: 12.5 ohms;
6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz. **$59.99**

HF/VHF/UHF RADIOS

FT-817ND

FT-857D

FT-897D

FT-857D HF/VHF/UHF 100W Multi-Mode Mobile – 160-10M, 60M, 50 MHz, 144 MHz, 430-450 MHz with 0.1-56, 76-108, 118-164 and 430-470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories; Enhanced performance with installed DSP board; Large, multi-color LCD display; Dual VFOs; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™. Dim: 6.1"w x 2.0"h x 9.2"d; 4.6 lbs ..... Free YSK-857 © **$699.99**

Available Accessories:
BET YAETUNECONT Better RF, **W4R ANTENNABOSS** W4RT interface, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **W4R OPFYCW300** W4RT 300 Hz Collins, **ADMS4B** Programming Software, **ATAS120** HF/6/2/430 antenna, **ATAS25** 40/20/15/10/6/2/430 antenna, **ATBK100** ATAS120 base kit, **CT39** Packet cable, **CT58** Band data cable, **CT62** Cat interface cable, **EDC20** DC cord, **FC30** External antenna tuner, **FC40** Auto tuner, **FP1023** 23A power supply, **FP1030A** 25A power supply with meters, **MD100A8X** Desk mic with tone control, **MD200A8X** Deluxe high fidelity desk mic, **MH36E8J** TTP mic, **MH59A8J** Remote control TTP mic, **MLS100** Mobile speaker, **TCXO9** TCXO unit (0.5ppm), **T9023225** Extra DC cord, **YA007FG** FG whip w/mount, **YF122C** 500 Hz Collins CW filter, **YF122CN** 300 Hz Collins CW filter, **YF122S** 2.3 kHz Collins SSB filter, **YH77STA** Stereo headphones, **YSK857** Separation kit

FT-897D HF/VHF/UHF 100W Multi-Mode Portable/Base – Similar to the FT-857D but can also operate using optional FNB-78 13.2V @ 4500mAh NiMH internal battery packs. With a battery pack it operates at 20W on all bands except 430 MHz (10W). Two FNB-78 packs may be installed simultaneously giving up to 8 hours of use.
Dim: 7.9"w x 3.14"h x 10.3"d; 8.6 lbs. © **$799.99**

Available Accessories:
Uses the same accessories as the FT-857D above, but excluding: **CT58, FP1023, FP1030A, TCX09** & **YSK857**

Additional accessories for FT-897D: CD24 4-hr charge adapter for FNB78, **FNB78** 4.5AH NIMH battery, **FP30** Internal PS, **MMB80** Mobile bracket, **PA26B** 110VAC charger for CD24

FT-817ND HF/VHF/UHF 5W Backpack QRP Transceiver – Similar to the FT-857D but no DSP and is low power for portability. RX coverage is also different: 0.1-56 MHz, 76-154 MHz, 420-470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM & 1.5W AM with external 13.8V DC; 2.5W SSB/CW/FM & 0.7W AM with 9.6V battery pack or 8 AA batteries (can be changed to 5W SSB/CW/FM via menu). Includes 50/144/430 MHz whip antenna, 1400mAh NiMH battery and AA battery case.
Dim: 5.3"w x 1.5"h x 6.5"d; 2.6 lbs **$599.99**

Available Accessories:
W4R OBF817/NDDIY W4RT CW & SSB Collins Filter, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **W4R OPFYCW300** W4RT 300 Hz Collins, **ADMS4A** Programming software, **ATAS25** 40/20/15/10/ 6/2/430 MHz antenna, **CSC83** Soft case, **CT39** Packet cable, **CT62** CAT interface cable, **EDC6** DC cord, **FNB72** 9.6V 1000mAh NiCad, **FNB85** 9.6V 1400mAh NiMH, **MH36E8J** TTP mic, **MLS100** Mobile speaker, **NC72B** Wall charger, **TCXO9** TCXO unit, **YA007FG** FG whip with mount, **YF122C** 500 Hz Collins CW filter, **YF122CN** 300 Hz Collins CW filter, **YF122S** 2.3 kHz Collins SSB filter

HF/6M RADIOS

FT-450 HF/6M 100W Compact Transceiver Covers 160-6M TX with 0.03-56 MHz RX and AM/FM/SSB/CW modes, built-in CTCSS. 500 regular memories; Power: 100W output. 10 kHz roofing filter and 400 MHz IF DSP technology. Built-in electronic keyer with 118 character CW beacon function. Multi-color, multi-function LCD display and bar-graph metering. Selectable AGC, IF width & shift, contour, digital noise reduction, manual notch filter and clarifier. IPO, VOX. Dedicated Data Jack for FSK-RTTY. Digital voice announcement of frequency, mode and S-meter, Comes with hand mic, mic clip & DC power cord. Optional internal antenna tuner & carrying handle. Dim: 9"w x 3.3"h x 8.5"d; 7.9 lbs ..... © **$649.99**

FT-450AT – Same as FT-450 but includes installed ATU-450 auto antenna tuner..... © **$749.99**

Available Accessories:
BET YAETUNECONT Better RF, **ATAS120** HF/6/2/430 antenna, **ATBK100** ATAS120 base kit, **ATU450** Internal coax automatic antenna tuner (160-6M, FT-450 only), **CT118** Control cable for Quadra System, **FC40** External automatic wire antenna tuner, **FP1023** 23A Switching power supply, **FP1030A** 30A power supply, **MD100A8X** Desk mic with tone control, **MD200A8X** Deluxe high fidelity desk mic, **MHG1** Carrying handle, **MMB90** Mobile mounting bracket, **T9207451** 6.5' 10-pin DIN plug & cable, **T9207460** 4' 10-pin DIN plug & cable, **YH77STA** Stereo headphones

FT-950 HF/6M 100W Transceiver – Built on the foundation of the popular FTDX-9000 and FT-2000 transceivers. Covers 160-10 Meters + 50 MHz band (TX) and 0.03-56 MHz (RX), all modes. Power: 100W SSB/CW/FM (25W AM). DSP is utilized throughout the design providing leading-edge performance on both transmit and receive. This incorporates many features such as Variable Bandwidth, IF Shift and Passband Contour tuning. Also provided are Digital Noise Reduction, Digital Auto-Notch Filtering and manually tuned IF Notch filter. The DMU-2000 is an option that provides extensive display capabilities via a user-supplied computer monitor. Some of these capabilities include Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, extensive Transceiver Status Displays and Station Logging Capability. Other features include Speech Processing, built-in Electronic Keyer, Digital Noise Reduction, two antenna jacks and Automatic Antenna Tuner.
Dim: 14.4"w x 4.5"h x 12.4"d; 28.7 lbs... **$1499.99**

Available Accessories:
BET YAETUNECONT Better RF, **CT118** Control cable for Quadra System, **CT119** Firmware upgrade cable, **DMU2000** Data management unit, **DVS6** Voice memory unit, **FC40** Auto tuner, **FH2** Remote Keypad, **FP1023** 23A power supply, **FP1030A** 25A power supply with meters, **MD100A8X** Desk mic. w/tone control, **MD200A8X** Dlx hi-fidelity desk microphone, **MTU160** U-tuning kit 160M, **MTU30/20** U-tuning kit 30/20M, **MTU80/40** U-tuning kit 80/40M, **SP2000** External speaker w/audio filters, **T9101556** Rotor control cable, **T9207451** 6.5' 10-pin DIN plug & cable, **T9207460** 4' 10-pin DIN plug & cable, **YH77STA** Stereo headphones

© Price after instant coupon, coupons and freebies may expire 4/30/08. Please call/web for current price and promotions.

YAESU

HIGH-END HF/6M BASE STATIONS

FT-2000

FT-2000 HF/6M 100W Transceiver – Covers 160-6M (TX) and 0.03-60 MHz (RX), all modes. Power output: 100W. Features: Built-in automatic antenna tuner; DSP-based variable IF Bandwidth, IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz included); Dual In-band Receive; Receiver Front End includes VRF (variable RF Tuning) Preselector that works in conjunction with a bank of fixed bandpass filters; External display port with optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays.
Dim: 16"w x 5.3"h x 14"d; 33 lbs..... © **$2499.99**

FT-2000D – Same as the FT-2000 but 200W output & ext. power supply included ... © **$3099.99**

Available Accessories:
CT119 Firmware upgrade cable, **DMU2000** Data management unit, **FH2** Remote Keypad, **MD100A8X** Desk microphone w/tone control, **MD200A8X** Dlx hi-fidelity desk microphone, **MH31B8** Extra hand microphone, **MTU160** U-tuning kit 160M, **MTU30/20** U-tuning kit 30/20M, **MTU80/40** U-tuning kit 80/40M, **SP2000** External speaker w/audio filters, **T9101556** Rotor control cable, **YF122C** 500HZ Collins CW filter, **YF122CN** 300HZ Collins CW filter, **YH77STA** Stereo headphones

FTDX-9000D

FTDX-9000 Series – Covers HF and 6 meters; available in three configurations including 200W and 400W versions. Class-A operation at 100W (400W version or 75W with the 200W version). The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does.

FTDX-9000D 200W, TFT display © **$10599.99**
FTDX-9000MP 400W, no TFT..... © **10999.99**
FTDX-9000 Contest 200W, no TFT © **5199.99**
(all FTDX-9000 radios are drop shipped from Yaesu)

Available Accessories:
MD100A8X Desk microphone w/tone control, **MD200A8X** Dlx hi-fidelity desk microphone, **MH31B8** Extra hand microphone, **YH77STA** Stereo headphones
FTDX-9000D & FTDX-9000 Contest only:
SP9000 Ext. dual speakers w/filters (FTDX-9000MP comes with similar dual speaker FPS-9000H)

HF/50 MHz Transceiver
FT DX 9000D

The radio... YAESU

Choice of the World's top DX'ers

HF/50 MHz Transceiver
FT-2000

HF/50 MHz Transceiver
FT-950

HF/50 MHz 100 W
All Mode Transceiver
FT-450

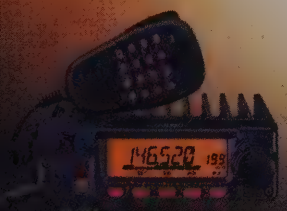
HF/VHF/UHF All-Mode
Portable Base Transceiver
FT-897D

Ultra-Compact HF/VHF/UHF
All-Mode Transceiver
FT-857D

5 W HF-430 MHz
All Mode Portable
FT-817ND

YAESU... the Best of the Best Just Got Better!

These are exciting times for Yaesu, our customers, and Amateur Radio. The future is bright and the potential for incredible technological advancement for Amateur Radio is immense. We are glad you will be with us as the positive affects of the Vertex Standard / Motorola joint-venture become apparent to all in the months and years ahead.



65 W 2 m
Rugged FM Mobile
FT-2800M

50 W 2 m Ultra Rugged
VHF FM Mobile
FT-1802M

2 m/70 cm Dual Band FM Mobile
(2 m 50 W/ 70 cm 40 W)
FTM-10R

2 m/70 cm Dual Band FM Mobile
(2 m 10 W / 70 cm 7 W)
FTM-10SR

5 W Ultra-Rugged, Submersible
6 m/2 m/70 cm Tri-Band FM Handheld
VX-7R/VX-7RB

5 W Heavy Duty Submersible
2 m/70 cm Dual Band FM Hand held
(226 MHz: 1.5 W)
VX-6R

50 W 10 m/6 m/2 m, 35 W 70 cm
Quad Band FM Mobile
FT-8900R

50 W 2 m, 35 W 70 cm
Dual Band FM Mobile
FT-8800R

50 W 2 m, 40 W 70 cm
Dual Band FM Mobile
FT-7800R

5 W Heavy Duty
2 m/70 cm Dual Band
FM Handheld
FT-60R/E

1.5 W Ultra Compact
2 m/70 cm Dual Band
FM Handheld
VX-3R

5 W Submersible Full Featured FM Handheld
2 m VX-170/120 · 70 cm VX-177/127
VX-170/VX-120 Series

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US Headquarters
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The radio... FT DX 9000

DISTINGUISHED

Experience
400 imposing Watts,
and call with confidence!

Photograph depicts after-market keyboard, keyer paddle, and microphone not supplied with transceiver.
Display image simulated and may differ in actual use.

The FT DX 9000MP's Power Amplifier stage utilizes SD2931 MOS FET devices in a parallel, push-pull configuration, a conservative design that permits ultra-clean Class-A operation at a full 100 Watts of output, with continuous bias adjustment between Classes A and AB available on the front panel. If you have a professional microphone with a balanced "Cannon" (XLR) connector, you may connect it directly to the matching connector on the front panel, then use our exclusive three-band Parametric Microphone Equalizer to adjust the center frequency, bandwidth, and equalizer gain in the bass, mid-range, and treble frequency ranges.

YAESU engineers take signal quality seriously, because we know you do, too!

HF/50 MHz Transceiver
FT DX 9000MP
400 W Special Order Version

Two Pairs of Meters, plus LCD Window; Data Management Unit and Flash Memory Slot Built In. Main/Sub Receiver VRF, plus Full Dual Receive Capability, External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 400 to 200 W not possible.

HF/50 MHz Transceiver
FT DX 9000D **200 W Version**

Large TFT, Data Management Unit and Flash Memory Slot Built In,
Main/Sub Receiver VRF, plus Full Dual Receive Capability,
Three μ-Tuning Modules for 160 - 20 M,
50 V/12 A Internal Switching Regulator Power Supply

HF/50 MHz Transceiver
FT DX 9000 Contest **200 W Custom-Configurable Version**

Two Pairs of Meters, plus LCD Window, VRF Input
Preselector Filter, Three Key Jacks, and Dual Headphone Jacks,
50 V/12 A Internal Switching Regulator Power Supply

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 200- to 400-Watt version not available.

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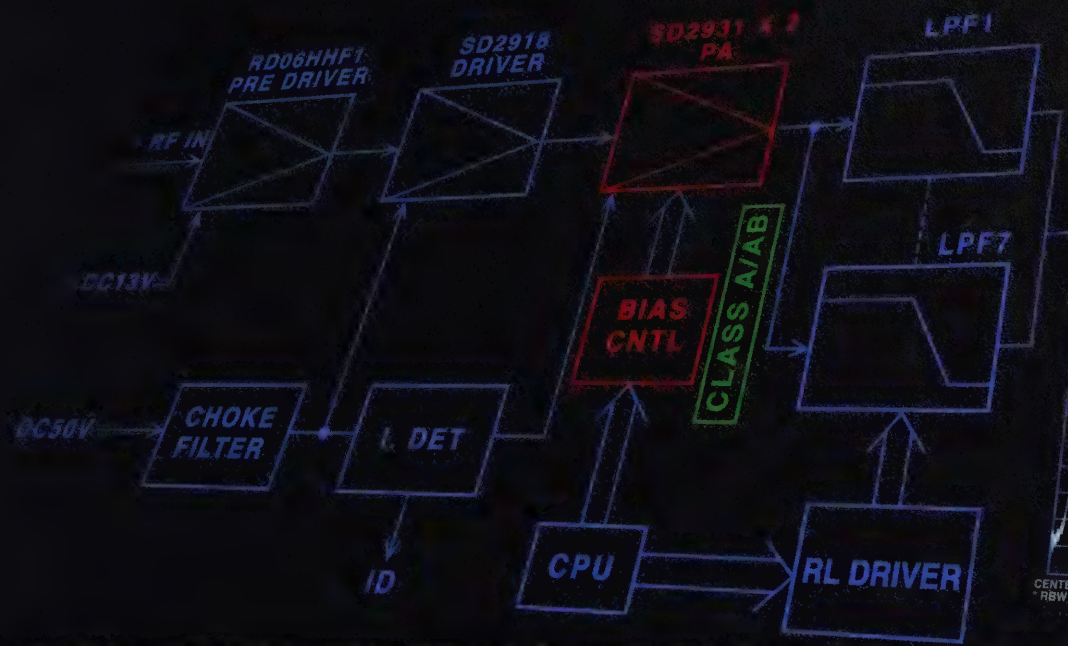
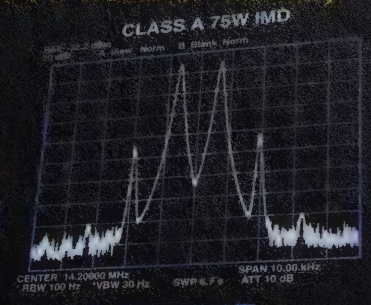
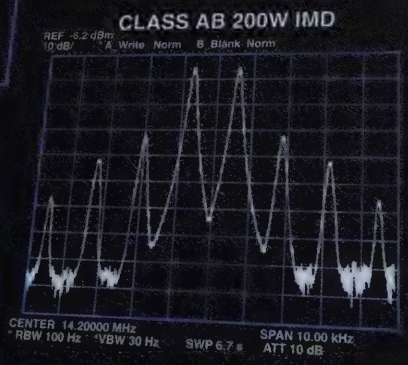
Ultra-low Distortion Class-A Final Amplifier

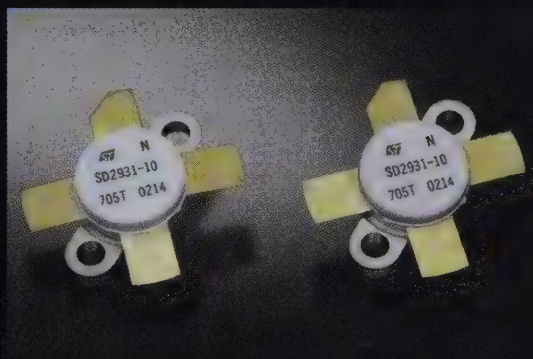
(200-Watt FT-2000D version)







The 200-Watt FT-2000D includes provision for operation in "Class-A" mode at 75 Watts of power output. It utilizes high bias current to produce very low transmitter Intermodulation products. The 3rd-order IMD products are typically suppressed 45 dB or better. The 5th and higher-order IMD is typically suppressed 70 dB or more. You may adjust the bias level between Classes A and AB to meet the demands of high ambient temperature in your station, and the long duty cycles associated with contest or DX-pedition use.



The FT-2000D (200-Watt version) utilizes push-pull SD2931 MOS FET devices, operating at 50 Volts. The user-adjustable bias control permits adjustment for optimum suppression of Intermodulation distortion products. The elaborate heat sink design includes a combination of aluminum and 3mm thick high-conductivity copper plate. The total heat sink capacity of 2720 ccm will ensure many years of reliable operation of this 200-Watt powerhouse.

HF/50 MHz Transceiver

FT-2000D 200 W Version (External Power Supply)

FT-2000 100 W Version (Internal Power Supply)

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Introducing the Yaesu FT-950 transceiver for DX enthusiasts
Superb receiver performance
Direct lineage from the legendary FT DX 9000 and FT-2000

HF/50 MHz 100 W Transceiver

FT-950

- Triple-conversion super-heterodyne receiver architecture, using 69.450 MHz 1st IF
- Eight narrow, band-pass filters in the RF stage eliminate out of band interference and protect the powerful 1st IF
- 1st IF 3 kHz Roofing filter included
- High-speed Direct Digital Synthesizer (DDS) and high-spec Digital PLL for outstanding Local Oscillator performance
- Original YAESU IF DSP advanced design, provides comfortable and effective reception. IF SHIFT / IF WIDTH / CONTOUR / NOTCH / DNR
- DSP enhancement of Transmit SSB/AM signal quality with Parametric Microphone Equalizer and Speech Processor
- Built-in high stability TCXO (±0.5 ppm after 1 minute@77 F)
- Built-in automatic antenna tuner ATU, with 100 memories
- Powerful CW operating capabilities for CW enthusiasts
- Five Voice Message memories, with the optional DVS-6 unit
- Large Multi-color VFD (Vacuum Fluorescent Display)
- Optional Data Management Unit (DMU-2000) permits display of various operating conditions, transceiver status and station logging.
- Optional RF μ -Tune Units for 160 m, 80/40 m and 30/20 m Bands

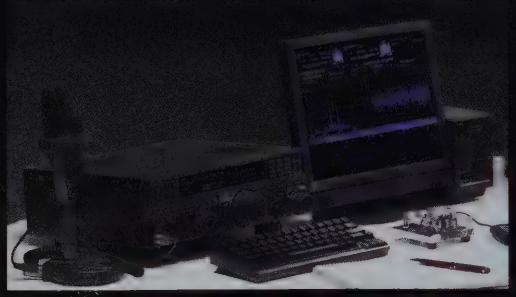
Optional, YAESU Exclusive, Fully-Automatic μ -Tuning Preselector System!

Fully automatic, Ultra-sharp, External μ -Tuning Preselector (optional) features a 1.1" (28 mm) Coil for High Q

On the lower Amateur bands, strong signal voltages impinge on a receiver and create noise and intermod that can cover up the weak signals you're trying to pull through. YAESU engineers developed the μ (Mu) Tuning system for the FT DX 9000/FT-2000, and it is now available as an option for the FT-950. Three modules are available (MTU-160, MTU-80/40, MTU-30/20); these may be connected externally with no internal modification required! When μ -Tuning is engaged, the VRF system is bypassed, but the fixed Bandpass Filters are still in the received signal path.

Optional External Data Management Unit (DMU-2000) Provides Many Display Capabilities

Enjoy the ultimate in operating ease by adding the DMU-2000! Enjoy the same displays available with the FT DX 9000 and FT-2000: Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, Extensive Transceiver Status Displays, and Station Logging Capability. These extensive functions are displayed on your user-supplied computer monitor.



Shown with after-market keyer paddle, keyboard, and monitor (not supplied).

DMU-2000
Data Management Unit (option)

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NEW COMPACT HF TRANSCEIVER WITH IF DSP

A superb, compact HF/50 MHz radio with state-of-the-art IF DSP technology configured to provide YAESU World-Class Performance in an easy to operate package.
New licensees, casual operators, DX chasers, contesters, portable/field enthusiasts, and emergency service providers - *YAESU FT-450...This Radio is for YOU!*

HF/50 MHz 100 W All Mode Transceiver

FT-450 Automatic Antenna Tuner ATU-450 optional

■ **FT-450AT** With Built-in ATU-450 Automatic Antenna Tuner

Compact size : 9" X 3.3" x 8.5" and Light weight : 7.9 lb

■ Large informative Front Panel Display, convenient Control knobs and Switches

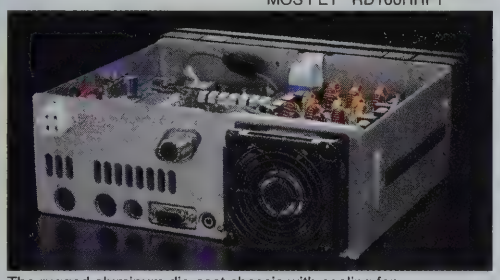
■ The IF DSP guarantees quiet and enjoyable highperformance HF/50 MHz operation

Handy Front Panel Control of Important Features including:

- **CONTOUR Control Operation**
  The Contour filtering system provides a gentle shaping of the filter passband.
- **Manual NOTCH**
  Highly-effective system that can remove an interfering beat tone/signal.
- **Digital Noise Reduction (DNR)**
  Dramatically reduces random noise found on the HF and 50 MHz bands.
- **IF WIDTH**
  The DSP IF WIDTH tuning system provides selectable IF passband width to fight QRM.
  SSB - 1.8/2.4/3.0 kHz , CW - 0.5/1.8/2.4 kHz
- **Digital Microphone Equalizer**
  Custom set your rig to match your voice characteristics for maximum power and punch on the band.
- **Fast IF SHIFT Control**
  Vary the IF SHIFT higher or lower for effective interference reduction / elimination.

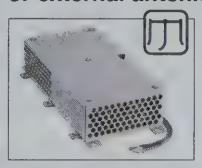
■ The rugged FT-450 aluminum die-cast chassis, with its quiet, thermostatically controlled cooling fan provides a solid foundation for the power amplifier during long hours of field or home contesting use.

MOS FET RD100HHF1

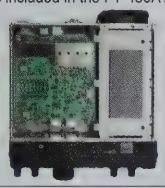


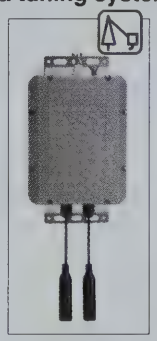
The rugged aluminum die-cast chassis with cooling fan

■ Operate anywhere using optional internal or external antenna tuning systems

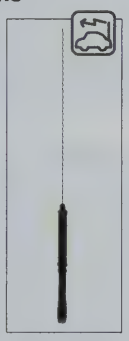


Internal Automatic Antenna Tuner ATU-450
Covering 160 m to 6 m Amateur Bands Dipole or Yagi antennas
(The ATU-450 Antenna Tuner is included in the FT-450AT)





External Automatic Antenna Tuner FC-40
Covering 160 m to 6 m Amateur Bands (with 65+ ft end fed wire)



Active Tuning Antenna System ATAS-120A
Covering 40 m to 6 m Amateur Bands
(For mobile)

More features to support your HF operation

●10 kHz Roofing filter ●20 dB ATT / IPO ●Built-in TCXO for incredible ±1 ppm/hour (@+77 °F, after warmup) stability ●CAT System (D-sub 9 pin): Computer programming and Cloning capability ●Large, Easy-to-See digital S meter with peak hold function ●Speech Processor ●QUICK SPLIT to automatically Offset transmit frequency (+5 kHz default) ●TXW to monitor the transmit frequency when split frequency operation is engaged ●Clarifier ●Built-In Electronic Keyer ●CW Beacon (Up to 118 characters using the CW message keyer's 3 memory banks) ●CW Pitch Adjustment (between 400 to 800 Hz, in 100 Hz steps) ●CW Spotting (Zero-Beating) ●CW Training Feature ●CW Keying using the Up/Down keys on the optional microphone ●Two Voice Memories (SSB/AM/FM), store up to 10 seconds each ●20 seconds Digital Voice Recorder ●Dedicated Data Jack for FSK-RTTY operation ●Versatile Memory System, up to 500 memory channels that may be separated into as many as 13 Memory Groups ●CTCSS Operation (FM) ●My Band / My Mode functions, to recall your favorite operating set-ups ●Lock Function ●Adjustable Main Tuning Dial Torque ●C.S. Switch to recall a favorite Menu Selection directly ●Hand Microphone included ●IMPORTANT FEATURE FOR THE VISUAL IMPAIRED OPERATORS - Digital Voice Announcement of the Frequency, Mode or S-meter reading

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The Hottest Field Gear Anywhere!

HF/VHF/UHF Portable Operation Just Got a Lot More Powerful!

FT-897D

TCXO | DSP | 60 m Band

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

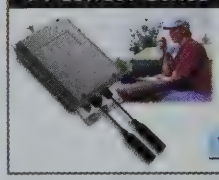
HF/VHF/UHF Multimode Mobile Transceiver, now Including Built-in DSP

FT-857D

DSP | 60 m Band

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

Automatic Matching for FT-897/857 Series Transceivers

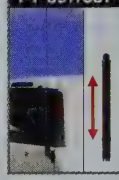


FC-40

Automatic-Matching
200-Memory
Antenna Tuner
(160 m ~ 6 m Band)

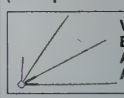
WATERPROOF

Mobile Auto-Resonating 7~430 MHz for FT-897/857 Series Transceivers

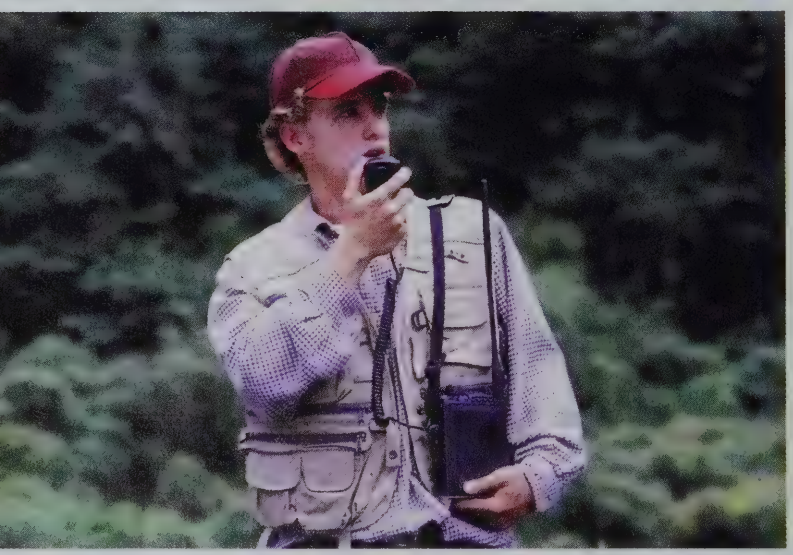


ATAS-120A

Active Tuning Antenna System
(no separate tuner required)



VHF/UHF
Base RadialKit
ATBK-100 for
ATAS-120A.



REAL PERFORMANCE, REALLY PORTABLE

FT-817ND

HF/50/144/430 MHz
5 W All Mode Transceiver
(AM 1.5 W)

60 m Band

ATAS-25
Manually-Tuned Portable Antenna

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A radio For Every Need - Yaesu VHF/UHF Mobiles

50 W 2 m Ultra Rugged VHF FM Mobile
FT-1802M 2 m Band

65 W 2 m Rugged FM Mobile
FT-2800M 2 m Band

50 W 10 m/6 m/2 m/70 cm* Quad Band FM Mobile
FT-8900R *70 cm 35 W

50 W 2 m/70 cm* Dual Band FM Mobile
FT-8800R *70 cm 35 W

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YAESU

SINGLE BAND MOBILES

FT-1802M 2M FM transceiver – Extended receive 136-174 MHz (includes a 10 channel NOAA weather bank); Power: 50/25/10/5W; 221 Alphanumeric memories with eight banks; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry. Dim: 5.6"w x 1.6"h x 5.8"d; 2.6 lbs..... © **$129.99**

Available Accessories:
ADMS1802 Programming software, **MLS100** Mobile speaker

FT-2800M 2M FM Transceiver – Cool, quiet, and ruggedly-built. Utilizes a Ultra-high Dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137-174 MHz receive. Includes Weather with Alert and 221 memories. Power: 65/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready.
Dim: 6.3"w x 2.0"h x 7.3"d; 4 lbs ..... © **$139.99**

Available Accessories:
ADMS2J Programming software, **MLS100** Mobile speaker, **S8002051** Extra mobile bracket, **S8101436** Extra DC cable

© Price after instant coupon, coupons and freebies may expire 4/30/08. Please call/web for current price and promotions.

LARGE INVENTORY

We keep all the popular amateur radios in stock so they ship the same day you order!

DUAL BAND MOBILES

FT-7800R 2M/440 MHz FM Mobile – Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater, or satellite operation on both bands, without the need for cross-band repeat capability. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) receive. Power: 50W (2M), 40W (430 MHz); N.O.A.A. weather alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; Illuminated keypad and mic keys; WIRES™ capability. Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs..... Free YSK-7800 © **$254.99**

Available Accessories:
ADMS2K Programming software, **CT39** Packet cable, **MLS100** Mobile speaker, **MMB60** Quick release mobile mount, **T9021715** Extra DC cable, **YSK7800** Remote separation kit

FTM-10 series doesn't include a hand mic. Mic and PTT is built in the control head.

FTM-10R 2M/440 MHz FM Mobile – Compact, perfect for outdoor motor sports communications. Covers 144-148 and 430-450 MHz with extended receive coverage of 0.5-1.8, 76-108, 108-137, 137-174, 174-222, 300-420, 420-470, 470-800 and 800-999 MHz bands (cellular blocked). Has 500 memory channels with 8-digit alphanumeric tags and includes an independent AM/FM broadcast receiver. Listen to AM or FM broadcast and monitor an amateur band at the same time. AM/FM/NFM/WFM (Stereo) modes. Power Output: 50W (2m)/40W (70cm). The microphone and PTT button are built into the front panel. If a conventional hand mic is desired, it must be ordered separately. Blue LCD display, keys and indicators are illuminated with very bright LEDs. Automatic Range Transponder System ARTS™, VOX; Wireless cloning; Dual receive; Smart Search; CTCSS & DCS; DTMF. Clock-calendar; 1200/9600 bps Packet jack; WIRES-II™ and Bluetooth capable. PA function; Intercom feature to communicate with a fellow passenger, hands-free intercom is available with the optional Bluetooth adapter. Comes with mounting bracket, 10 ft. separation cable, front panel bracket +13.8 VDC at 8.5A. Dim: 4.4"w x 1.5"h x 7"d, 2.9 lbs..... © **$299.99**

FTM-10SR – Same except lower power, smaller & waterproof; 10W (2M), 7W (440 MHz) © **$299.99**

Available Accessories:
AMK1 License plate bracket for YHAM-10, **BLUETOOTHKIT** Bluetooth kit w/BH-1/BU-1/CAB-1, **COX2MM** 6.6' coax cable for YHAM-10, **CTM10** 20' separation cable, **MEKM10** Mic adapter jack, **MH68A6J** DTMF hand mic, **MLS200M10** High power external speaker, **MMBM10** Multi-angle stand bracket, **MMBM11** Multi-angle handlebar bracket, **YHAM10** 2M/440 19.7" antenna

DUAL & QUAD BAND MOBILES

FT-8800R

FT-8800R Dualband FM Mobile – Easy operation, outstanding receiver performance, and cross-band repeat capability, the 8800R is the new standard of comparison. Covers 144-148 & 430-450 MHz transmit with 108–520 & 700-999 MHz (cell blocked) wide coverage receive (Public safety, Commercial, Aircraft, and Government ranges); Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories" (complete sets of transceiver configurations); Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; Cross-band repeat capability; One-touch band pattern; CTCSS/DCS (50/104 tone); User-program mic keys; Convenient remote-head mounting capability (optional kit required). Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs... Free YSK-8900 © **$354.99**

FT-8900R Quad Band FM Mobile – Same as the FT-8800R but covers 28-29.7, 50-54, 144-148, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz); Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs Free YSK-8900 © **$399.99**

Available Accessories for FT-8800R & FT-8900R:
ADMS2H Programming software (8900R), **ADMS2I** Programming software (8800R); **CT39** Packet cable, **MLS100** Mobile speaker, **MMB60** Quick release mobile mount, **MMB62** Remote control panel bracket, **T9021810** Extra DC cable, **YSK8900** Remote separation kit

YAESU MOBILE ACCESSORIES

FP-1030A FP-1023 MLS-100

For All Yaesu Mobiles:
FP-1023 – 23A Switching PS w/fan ... **$169.99**
FP-1030A – 25A PS w/meters **$269.99**
MLS-100 – Mobile Speaker **$49.99**
Programming software ..... each **$39.99**

Only for FT-7800, FT-8800 & FT-8900:
CT-39 – Packet Cable **$11.99**
MMB-60 – Quick release mobile mount **$39.99**

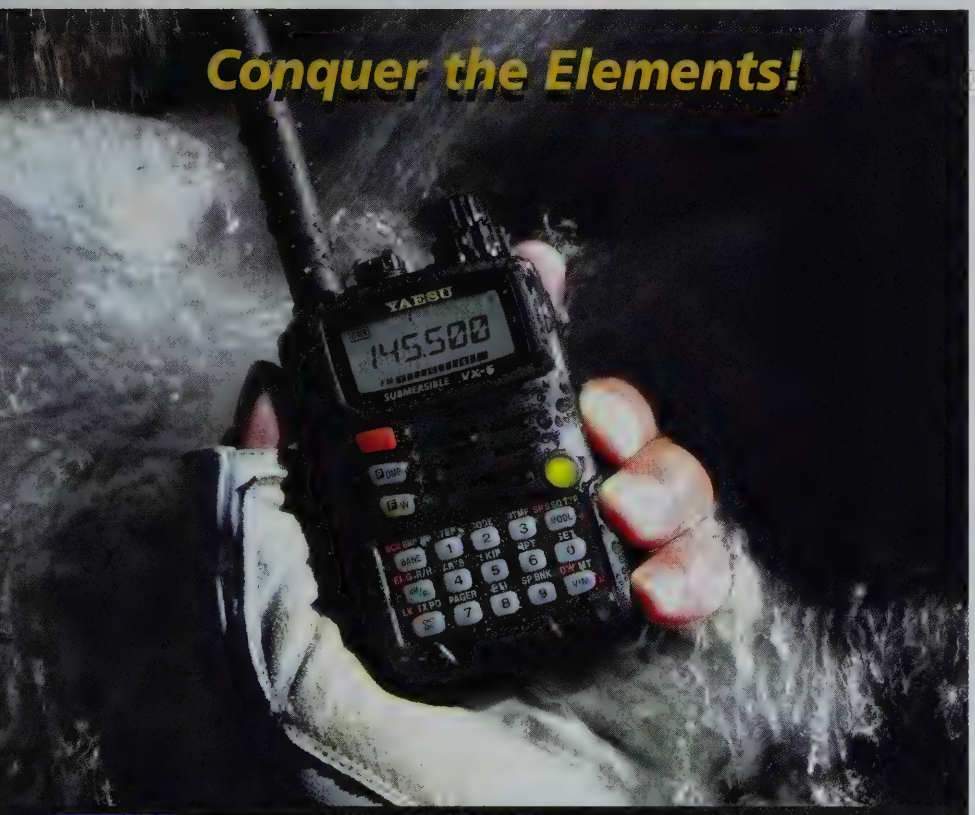
Only for FT-8800, & FT-8900:
T9021810 – Extra DC cable **$12.99**
YSK-8900 – Remote separation kit **$49.99**

Only for FT-7800:
YSK-7800 – Remote separation kit **$49.99**

Only for FT-2800:
S-8002051 – Extra mobile bracket **$4.99**
S-8101436 – Extra DC cable **$7.99**

MORE YAESU MOBILE ACCESSORIES ON PAGE 24 IN PRICE GUIDE

A radio For Every Need - Yaesu VHF/UHF Handhelds



IPX7 Submersible, 3 feet (1m) for 30 min.

2 m / 70 cm Dual Band

5 W Heavy Duty Submersible
2 m/70 cm Dual Band FM Hand held (220 MHz: 1.5 W)
VX-6R

IPX7 Submersible, 3 feet (1m) for 30 min.

5 W Heavy Duty Submersible
2 m FM Mono Band Hand Helds
VX-120 (8 key Version) **VX-170** (16 key Version)

70 cm FM Mono Band Hand Helds
VX-127 (8 key Version) **VX-177** (16 key Version)

2 m Mono Band

70 cm Mono Band

5 W Ultra-Rugged, Submersible
6 m/2 m/70 cm Tri-Band
FM Hand held
VX-7R/VX-7RB

6 m / 2 m / 70 cm Tri-Band

5 W Heavy Duty
2 m/70 cm Dual Band FM Hand held
FT-60R

2 m / 70 cm Dual Band

Ultra-Rugged 5 W Full Featured
2 m FM Hand helds
VX-150/VX-110

2 m Mono Band

YAESU
Choice of the World's top DX'ers

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

For the latest Yaesu news, visit us on the Internet:
http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU

SINGLE BAND HTS

VX-150 2M Ultra-Rugged FM HT – Designed to perform under the most difficult conditions. Coverage: 144-148 MHz TX, 140-174 MHz RX. 209 memories; 5W output with standard battery; Three power output levels 5/2/0.5W; Wide/ Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™ automatic memory loading; 7-Digit alpha memory labels; CTCSS & DCS encode/decode; 9 DTMF auto dial memo memory bank and preferential memory scanning; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ (auto-range transponder system) function; 1750 Hz tone calling for European repeaters; Programmable menu; Die-cast aluminum case; High output speaker; Battery saver; Auto power off; MIL-STD 810D/E. Comes with FNB-64 7.2V 700mAh NiCad battery pack, SMA antenna, NC-72B wall charger, and belt clip. Dim: 4.2"h x 2.3"w x 1.1"d; 11.5 oz ..... Free FNB-64 © **$117.99**

Available Accessories

ADMS1F Programming software, **CN3** BNC-SMA adapter, **CT27** Cloning cable, **CT44** 2-pin speaker mic adapter, **CT53** Packet cable, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 "AA" cell battery case, **FNBV57** 7.2V 1100mAh battery, **FNB64** 7.2V 700mAh battery, **LCC150/TT** Leather case, **LCC150S/TT** Leather case/swivel, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and mic, **NC72B** Extra wall charger, **VAC400B** One-hour rapid charger, **VC25** VOX headset

VX-170 is 2M (shown)
VX-177 is 440 MHz

VX-170 2M FM Handheld A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. Similar to the VX-150, but has a larger display, double the battery capacity and significantly higher audio output. Receive coverage is from 136-174 MHz and has 200 alphanumeric memory channels that may be partitioned into as many as 10 memory groups. A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Security password feature protects against unauthorized use. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Comes with FNB-83 7.2V 1400mAh Ni-MH battery pack, flexible SMA antenna, NC-88B wall charger and belt clip © **$119.99**

VX-177 – Same but 440 MHz band instead of 2M.
Dim: 2.4"w x 4.7"h x 1.3"d; 13.8 oz **$149.99**

Available Accessories

ADMSVX170 Programming software for VX-170, ADMSVX177 Programming software for VX-177, **CD26** Charger cradle, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CT91** Microphone adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 "AA" cell battery case, **FNB83** 7.2V 1400mAh NiMH battery, **MH57A4B** Speaker mic, **VAC370** Rapid charger, **VC24** VOX headset, **VC27** Earpiece/mic

DUAL BAND HTS

FT-60R 144/440 MHz FM Dualband FM HT – Wide RX coverage. Augmenting the transceive on 144/430 MHz, there is RX coverage of VHF/UHF TV, VHF AM aircraft, and more: 108-137, 137-520 and 700-999 MHz (cell blocked). Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W; 1000+ memories with alphanumeric labels; Emergency Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; WIRES™ access key; Auto repeater shift; Auto-Range Transponder System (ARTS™); NiMH long-life battery and charger. Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400Mah NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip.
Dim: 2.3"w x 4.3"h x 1.2"d; 13 oz **$189.99**

Available Accessories

ADMS1J Windows software, **CN3** BNC-SMA adapter, **CT27** Cloning cable/CT27A, **CT44** 2-pin speaker/mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 AA cell battery case, **FNB83** 7.2V 1400mAh NiMH battery, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and mic, **VAC370** Rapid charger, **VC25** VOX headset

VX-3R Ultra Compact 2m/440MHz Dual Band FM Handheld – Covers 144-148 MHz and 430-450 MHz with wideband receive from 500 kHz to 999 MHz (less cellular). Includes 1.8 to 30 MHz with AM/FM/NFM/WFM modes so you can hear the AM, shortwave and FM broadcast bands, TV audio, aircraft and public service channels. 1000 alphanumeric channel memory system with special memory banks for Weather, Broadcast, VHF Marine and Shortwave Broadcast. The sub-RX feature allows listening to AM or FM radio stations while monitoring a HAM frequency which you can talk on instantly by hitting the PTT button. Power output with the supplied high-capacity super-thin 1000 mA hour Lithium-Ion battery is 1.5W (VHF) and 1W (UHF). Using the optional EDC-21 DC adapter output increases to 3W (VHF) and 2W (UHF). Rugged aluminum die-cast chassis. Built-in features include: CTCSS/DCS Encode/Decode with split tone capability; DTMF; Messaging; AM Band Bar Antenna; WIRES™-II Internet Key; Automatic In-Range Transponder (ARTS); FM Stereo Earphone Jack; CW Learning and Training; Mechanical Dial Lock; Internal temperature sensor. Comes with the FNB-82LI lithium-ion battery and NC-85B charger, SMA flexible antenna, belt clip, and wrist strap.
Dim: 1.9"w x 3.2"h x 0.9"d, 4.6 oz..... **$179.99**

Available Accessories:

ADMSVX3 Programming software, **CN3** BNC-SMA adapter, **CSC92** Soft case, **CT27** Cloning cable, **CT44** Two pin mic adapter (for older Yaesu mics), **EDC21** DC cigarette lighter cable with plug, **FBA37** Cell Holder (3 x AA), **FNB82LI** Lithium Ion Battery Pack (3.7V 1000 mAh), **MH34B4B** Speaker mic, **MH37A4B** Compact lapel mic with earphone, **VC25** VOX/PTT headset

TRI BAND HT

VX-6R 144/220/440 MHz Triple band Submersible FM HT – 5W power on 144/440 MHz and 1.5W on 220 Mhz; Wide receive coverage: 504 kHz – 998.990 MHz (cell blocked); 900 memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off! Emergency Automatic ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 222 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1400mAh Li-Ion battery, NC-72B battery charger, flexible SMA antenna, belt clip, hand strap.
Dim: 2.3"w x 3.5"h x 1.1"d; 9.5 oz..... **$249.99**

Available Accessories

ADMSVX6 Programming software, **CD15A** Charger stand for NC72B, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CSC91** Soft case, **CT91** Mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 AA cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **NC72B** Extra wall charger, **SU1** Altitude/barometric pressure sensor, **VC24** VOX headset, **VC27** Earpiece/mic

QUAD BAND HT

VX-7R is silver (shown)
VX-7RB is black

VX-7R Ultra-Rugged, Submersible Magnesium FM – Quad-band HT With a full 5W output on 50, 144 and 440 MHz FM, 300mW output on 220 MHz. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and meets JIS-7 specification. 500 kHz to 999 MHz continuous receive (cellular blocked); Over 900 memories including 40 memory scan band limit and 10 weather; Built-in CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponding System; User-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; WIRES™ internet-linking; Comes with FNB-80LI 7.4V 1300mAh lith-ion battery, NC-72B battery charger, dual section belt clip, silver case.
Dim: 2.4"w x 3.5"h x 1.1"d; 9.2 oz.
VX-7RB Same but black case ... each © **$294.99**

Available Accessories

ADMS1G Programming software, **CD15A** Rapid charger for NC72B, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CSC88** Soft case, **CT91** Mic. adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 "AA" cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **NC72B** Extra wall charger, **Q3000185** Replacement duck, **SU1** Altitude/barometric pressure sensor, **VC24** VOX headset, **VC27** Earpiece/mic

© Price after instant coupon, coupons and freebies may expire 4/30/08. Please call/web for current price and promotions.

* Remotable control head
* Optional module required for TS-2000, and B versions
(1) One port for HF; one port for 6M
(2) HF/6M one port, 2M/440MHz second port
(3) Two ports for HF, one dedicated for 2M
(4) No FM
(5) On internal batteries: 20W (10W on 70cm)
(6) On internal batteries: 5W (2.5W on 70cm)
(7) 4 SO-239, 1 BNC

HF RADIOS

MAUFACTURER	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD
MODEL	DX-70TH*	IC-703PLUS*	IC-706MkIIG*	IC-7000*	IC-718	IC-746PRO	IC-756PROIII	IC-7700	IC-7800	TS-2000, TS-B2000 TS-2000X	TS-480HX*	TS-480SAT*
BANDS	HF, 6M	HF, 6M	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF	HF, 6M, 2M	HF, 6M	HF, 6M	HF, 6M	HF, 6M, 2M 70CM, 1.2GHz*	HF, 6M 60M	HF, 6M 60M
RX RANGE (Mhz)	0.15-30 50-54	0.03-30 30-60	0.03-200 400-470	0.03-199 400-470	0.03-30	0.03-60 108-174	0.03-60	0.03-60	0.03-60	0.03-60, 142-152 420-450 1240-1300*	0.03-60	0.03-60
POWER (SSB/CW/FM)	10-100W	10/5W	5-100 HF/6M 5-50 2M 2-20 70CM	2-100 HF/6M 2-50 2M 2-35 70CM	5-100W(4)	5-100W	5-100W	5-200W	5-200W	100W HF/6/2M 50W 70CM 10W 1.2GHz*	200W HF/6M	100W HF/6M
POWER (AM)	4-40W	2/4W	2-40W HF/6M 2-20W 2M 2-8W 70CM	1-40W HF/6M 2-20W 2M 2-14W 70CM	2-40W	5-40W	5-40W	5-50W	5-50W	25W HF/6/2M 12.5W 70CM 2.5W 1.2GHz*	5-50W	5-25W
DSP	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TUNER	OPTIONAL	YES	OPTIONAL	OPTIONAL	OPTIONAL	YES	YES	YES	YES	YES	NO	YES
KEYER	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	NO	OPTIONAL	OPTIONAL	YES	OPTIONAL	OPTIONAL	OPTIONAL	YES	YES	OPTIONAL	OPTIONAL	OPTIONAL
VOX	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER REQUREMENT	12VDC 25A	9-15.8VDC 2/3A	12VDC 20A	12VDC 22A	12VDC 20A	12VDC 23A	12VDC 23A	BUILT-IN	BUILT-IN	12VDC 20.5A	12VDC 41A	12VDC 20.5A
ANTENNA PORTS	2(1)	1	2(2)	2(2)	1	3(3)	2	5(7)	4	5	2	2
COMPUTER PORT	NO	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	RS-232	RS-232	RS-232	RS-232	RS-232
HEIGHT (IN)	2.3	2.3	2.3	2.59	3.75	4.7	4.3	5.9	5.9	3.75	2.4	2.4
WIDTH (IN)	7	6.56	6.6	6.56	9.44	11.3	13.3	16.7	16.6	10.63	7	7
DEPTH (IN)	9	7.87	7.9	7.09	9.4	12.5	11.2	17.1	17.1	12.5	10.2	10.2
WEIGHT (LBS)	6	4.4	5.5	5.1	8.4	19.5	21	52.9	55	17.19	8.15	8.15

HF RADIOS

MAUFACTURER	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	YAESU	YEASU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	9015	9020	9030	9040	9410X	9420X	9440X	9475X	FT-817ND	FT-857D	FT-897D	FT-450 FT-450AT	FT-950	FT-2000	FT-2000D	FTDX-9000 SERIES
BANDS	15M	20M	30M	40M	10M	20M	40M	75M	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M	HF, 6M	HF, 6M	HF, 6M	
RX RANGE (Mhz)	21-21.2	14-14.075	10.1-10.15	7.0-7.5	28.3-28.6	14.15-14.35	7.15-7.3	3.75-4	0.1-56 76-154 420-470	0.1-56, 76-108 118-164 420-470	0.1-56, 76-108 118-164 420-470	0.03-56	0.03-56	0.3-60	0.3-60	
POWER (SSB/CW/FM)	5W CW	5W CW	5W CW	5W CW	20W SSB PEP	20W SSB PEP	12W SSB PEP	12W SSB PEP	5W SSB/CW/FM	100W HF 50W 2M 20W 70CM	100W HF/6M(5) 50W 2M 20W 70CM(5)	100W	100W	100W	200W	
POWER (AM)	NO	NO	NO	NO	NO	NO	NO	NO	1.5W	25W HF 12.5W 2M 5W 70CM	25W HF/6M(6) 12.5W 2M(6) 5W 70CM(6)	25W	25W	2-25W	5-50W	
DSP	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	
TUNER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	OPTIONAL YES	YES	YES	YES	
KEYER	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	
SPEECH READOUT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	
VOX	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	
POWER REQUREMENT	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 2A	12VDC 22A	12VDC 22A	12VDC 22A	12VDC 22A	12VDC 22A	50VDC @ 12A 12VDC @ 6A	
ANTENNA PORTS	1	1	1	1	1	1	1	1	2	2(2)	2(2)	1	2	2	2	
COMPUTER PORT	NO	NO	NO	NO	NO	NO	NO	NO	CT-62 REQUIRED	CT-62 REQUIRED	CT-62 REQUIRED	YES	YES	RS-232	RS-232	
HEIGHT (IN)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.5W	2	3.14	3.3	4.5	5.3	5.3	
WIDTH (IN)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.3	6.1	7.9	9	14.4	16.1	16.1	
DEPTH (IN)	6	6	6	6	6	6	6	6	6.5	9.2	10.3	8.5	12.4	13.8	13.8	
WEIGHT (LBS)	2	2	2	2	2	2	2	2	2.6	4.6	8.6	7.9	28.7	32	34	

See pages 42 & 44 or go to Yaesu's Website: WWW.YAESU.COM

Links to Manufacturer's Websites at aesham.com

SINGLE BAND MOBILES

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	MFJ	MFJ	MFJ	MFJ	YAESU	YAESU
MODEL	DR-03T	DR-06T	DR-M06TH	DR-135TMKIII, TPMKIII	DR-235TMKIII	DR-435TMKIII	IC-2200H	IC-V8000	ID-1(4)	TM-271A	8621	8621X2	9402X	9406X	FT-1802M	FT-2800M
TX RANGE (MHz)	28-29.695	50-53.995	50-54	144-148	222-224.995	430-449.995	144-148	144-148	1240-1300	144-148	145.01	144.39	144-144.3	50-50.3	144-148	144-148
RX RANGE (MHz)	28.29.695	50-53.995	40-60(1)	118-174	216-279.995	350-511.995	118-174	136-174	1240-1300	136-174	145.01	144.39	144-144.3	50.3	136-174	137-174
AIRCRAFT RX	NO	NO	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	10/5/1W	50/20/5W	20/1W	50/10/5W	25/10/5W	35/10/5W	65/25/10W	75/25/10/5W	10/1W	60/25W	5W	5W	7W SSB	10W SSB	50/25/10/5W	65/25/10/5W
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	NO	NO	YES	YES
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES/DCS	YES	YES	NO	NO	NO	NO	YES	YES
TONE DECODE	YES	YES	EJ-20U	YES	YES	YES	YES	YES/DCS	YES/DTCS	YES/DCS	NO	NO	NO	NO	YES/DCS	YES/DCS
MEMORIES	100	100	100	100	100	100	207	207	100	200	0	0	0	0	221	221
ALPHANUMERIC	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES
PC PROGRAMMABLE	TBD	TBD	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO
13.8V DC@	3A	11A	5A	11A	8A	10A	15A	15A	7A	13A	>1A	>1A	2A	3A	10A	10A
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	N	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239
HEIGHT (IN)	1.57	1.57	1.6	1.6	1.6	1.6	1.6	2	6	1.7	1.5	1.5	2.5	2.5	1.6	2
WIDTH (IN)	5.85	5.85	5.5	5.6	5.6	5.6	5.5	5.9	2	6.3	5	5	6.5	6.5	5.6	6.3
DEPTH (IN)	6.83	6.83	4.5	6.9	6.9	6.9	7.1	5.9	2	5.4	5	5	6	6	5.8	7.3
WEIGHT (LBS)	2.21	2.21	1.5	2.3	2.3	2.3	2.75	2.22	2.6	2.6	0.8	0.8	2	2	2.6	2

MULTI BAND MOBILES

MANUFACTURER	ALINCO	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	DR-635T	ID-800	IC-208H	IC-2820H	TM-V71A	TM-D710A(4)	FTM-10R	FTM-10SR(4)	FT-7800R	FT-8800R	FT-8900R
TX RANGE (Mhz)(6)	144-148 430-450	144-148 440-450	144-148 440-450	144-148 430-450	144-148 430-450	144-148 438-450	144-148 430-450	144-148 430-450	144-148 430-450	144-148 430-450	28-29.7, 50-54 144-148 430-450
RX RANGE (Mhz)(6)	87.5-108 108-174(5) 335-480	118-173 230-549 810-999	118-174(5) 230-550 810-999	118-549.99 (LEFT) 118-173.99, 375-549.99 810-990.99 (RIGHT)	118-154 (A BAND) 136-524 800-1300 (B BAND)	118-470 (A BAND)(2) 136-175, 300-524 800-1300 (B BAND)(2)	0.5-1.8 76-222 300-999	0.5-1.8 76-222 300-999	108-520 700-999	108-520 700-999	28-29.7, 50-54 108-180 320-480, 700-985
SINGLE OR DUAL RX	DUAL	SINGLE	SINGLE	DUAL	DUAL	DUAL	DUAL	DUAL	SINGLE	DUAL	DUAL
POWER (2M)	50/25/5W	55/15/5W	55/15/5W	50/15/5W	50/10/5W	50/10/5W	50/20/5W	10/3/0.5W	50/20/10/5W	50/20/10/5W	50W(3)
POWER (440 MHz)	35/20/5W	50/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	40/20/5W	7/3/0.5W	40/20/10/5W	35/20/10/5W	35W
MEMORIES	200	500	500	522	1000	1000	500	500	1000	1000	800
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE DECODE	YES	DCS	YES	YES	YES	YES	YES	YES	DCS	DCS	DCS
DUPLEXER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CROSS-BAND REPEAT	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	YES
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YSE	YES	YES	YES	YES	YES	YES	YES	YES	YES
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEPARABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
HEIGHT (IN) (HEAD)	5.5	5.6	1.6	1.65 (1.25)	1.7	1.7 (2.8)	1.5	1.1 (1.5)	1.6	1.6	1.6
WIDTH (IN)	1.6	1.6	5.6	5.9 (5.9)	5.5	5.6 (6.2)	4.4	5.1 (4.4)	5.5	5.5	5.5
DEPTH (IN)	7.3	7.3	7.3	7.4 (2.6)	7.1	6.3 (2.2)	7	3.2 (1.6)	6.6	6.6	6.6
WEIGHT (LBS)	2.2	2.65	2.7	3.3 (0.46)	3.3	2.6 (0.6)	2.9	1 (0.5)	2.2	2.2	2.2

(1) Requires keyboard modification
(2) There are gaps in non-voice or data portions in certain bands
(3) FT-8900R includes 10M/6M as well
(4) Control head separate from body
(5) AM aircraft receive mode
(6) Manufactuer only guarantees specs within the ham bands

All radios are cellular blocked

(1) Standard CTCSS plus DCS
(2) Folding ant. attached
(3) Dual operation between Voice & Data
(4) Comes with AA battery case that gives it 2W output. Up to 5W with optional 9.6V/650mAh battery or 6W with optional 13.5V DC power cable.
All radios are cell blocked

SINGLE BAND HANDHELDS

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	KENWOOD	YAESU	YAESU	YAESU
MODEL	DJ-496T	DJ-S11T	DJ-V17T	DJ-V27T	DJ-V47T	DJ-S40T	DJ-S45T	IC-V82	IC-U82	IC-V8SPORT	IC-V85	TH-K2AT	VX-150	VX-170	VX-177
BAND	440MHz	2M	2M	220MHz	440MHz	440MHz	440MHz	2M	440MHz	2M	2M	2M	2M	2M	440MHz
RX RANGE (MHz)	430-450	144-148	130-174	216-249.995	410-470	425-450	420-474	136-174	400-479	136-174	136-174	136-174	140-174	137-174	420-470
AIRCRAFT RX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	5W	340mW	5W	5W	4.5W	500mW	500mW	7W	5W	5.5W	7W	5W	5W	5W	5W
TOUCH-TONE PAD	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE DECODE	YES (1)	NO	YES (1)	YES (1)	YES (1)	YES	YES	YES	YES	YES (1)	YES	YES (1)	YES	DCS	DCS
MEMORIES	40	21	200	200	200	100	100	200	200	100	107	100	200	200	200
ALPHANUMERIC	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	AA	NI-MH	NI-MH	NI-MH	AA	AA	NI-CAD	NI-CAD	AA	LITH-ION	NI-MH	NI-CAD	NI-MH	NI-MH
PC PROGRAMMABLE	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
ANTENNA CONNECTOR	BNC	FIXED(2)	SMA	SMA	SMA	SMA	SMA	BNC	BNC	BNC	BNC	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	3.9	4.33	4.33	4.33	4	3.86	5.5	5.5	5.2	4.34	4.4	4.3	4.7	4.7
WIDTH (IN)	2.2	2.2	2.28	2.28	2.28	2.2	2.24	2.1	2.1	2.1	2.2	2.4	2.3	2.3	2.3
DEPTH (IN)	1.6	1.1	1.43	1.43	1.43	1.2	1.17	1.4	1.4	1.4	1.35	1.1	1	1.2	1.2
WEIGHT (OZ)	13.2	6.5	9.9	9.9	9.9	3.5	5.7	13.8	13.8	12.3	12.5	12.5	11.5	13.8	13.8

MULTI BAND HANDHELDS

MANUFACTURER	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	YAESU	YAESU	YAESU	YAESU
MODEL	DJ-596TMKII	DJ-C7T	DJ-V5TH	IC-T7H SPORT	IC-T90A	IC-P7A	IC-91A / AD	IC-92AD	TH-D7A(G)	TH-F6A	FT-60R	VX-3R	VX-6R	VX-7R / RB
TX RANGE (MHz)	144-148 420-450	144-148 420-450	144-148 438-450	144-148 440-450	50-54 144-148 430-450	144-148 430-450	144-148 420-450	144-148 420-450	144-148 430-450	144-148 222-225 430-450	144-148 430-450	144-148 430-450	144-148 222-225 430-450	50-54, 144-148 222-225 430-450
RX RANGE (MHz)	136-174 400-512	88.1-174 380-512	76-999	118-174 400-470	0.495-999.99	0.495-999.99	0.495-999.99	0.495-999.99	118-174 400-480	0.1-1300	108-520 700-999	0.5-999	0.5-999	0.5-16 48-730 800-900
SINGLE/MULTI RX	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	DUAL	DUAL	SINGLE(3)	DUAL	SINGLE	SINGLE	SINGLE	DUAL
AIRCRAFT RX	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER OUTPUT	5W	300mW	5W	2W(4)	5W	1.5W(1W/440)	5W	5W	5W	5W	5W	1.5W (1W/440)	5W (1.5W/222)	5W (300mW/222)
MEMORIES	100	200	200	70	555	1000	1304	1304	200	435	1000	1286	900	220
CTCSS	ENC/DEC/DCS	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC/DCS	ENC/DEC	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS
TOUCH-TONE PAD	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES	NO	YES	YES
ALPHANUMERIC	YES	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YES	NO	YES	YES	YES	PC CONTROL	PC CONTROL	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	LI-ION	NI-CAD	AA	LI-ION	LI-ION	LI-ION	LI-ION	NI-CAD	LI-ION	NI-MH	LI-ION	LI-ION	LI-ION
ANTENNA CONN.	BNC	SMA	SMA	BNC	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	3.8	3.8	4.8	3.4	3.1	4.1	4.4	4.7	3.4	4.3	3.2	3.5	3.5
WIDTH (IN)	2.2	2.3	2.3	2.3	2.3	1.8	2.3	2.3	2.1	2.3	2.3	1.9	2.3	2.3
DEPTH (IN)	1.6	0.6	1.3	1.1	1.2	1.1	1.3	1.3	1.7	1.2	1.2	0.9	1.1	1
WEIGHT (OZ)	13.2	3.6	12	14.3	8.5	5.6	10.6	11.2	13.4	8.8	13	4.6	9	9.2

MFJ Power Supplies & Accessories

Economically Power your Station Equipment and Accessories with one of these **MFJ MightyLite™** or **Compact** Switching Power Supplies!

Small • Super Lightweight • Rugged • No RF Hash or Noise!

4125

4225MV

4245MV

Small – *MightyLites™* are so small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky power supplies.

Lightweight – The 25 Amp *MightyLites™* weigh in at under 4 lbs. which is 4 to 5 times lighter than an equivalent conventional design power supply. The 45 Amp model is just 5.5 pounds!

No RF Hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.

Worldwide Versatility – Switchable AC input voltage handles 85-135 or 170-260VAC.

Mighty Features – Model **4225MV** and **4245MV** feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way heavy-duty binding posts and cigarette lighter socket for mobile accessories. The **4245MV** has two sets of quick-connects on the rear for accessories. Dual 3 in. illuminated meters monitor load voltage and current. Internal fan.

4125 (left) – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5"w x 2.5"h x 2.5"d; 3.5 lbs..... **$109.99**

4225MV (center) – 25 Amps max. or 22 Amps continuous. Dim: 5.75"w x 4.5"h x 6"d; 3.7 lbs **$149.99**

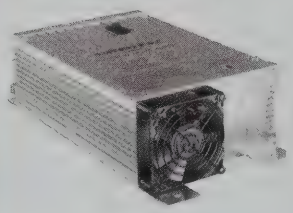
4245MV (right) – 45 Amps max. or 40 amps continuous. Dim: 7.5"w x 4.75"h x 9"d; 5.5 lbs. **$199.99**

Compacts for QRP

4103 Compact Switching Power Supply – For Yaesu FT-817, other QRP rigs and MFJ accessories. Input: 100-240VAC, Output: 13.8 VDC @ 2.89 Amps. Over-voltage, over-current, and over-temperature protected. Includes output cable with a 2.1 mm plug and adapter cable for FT-817. Dim: 2.63"w x 1.38"h x 4.13"d; 10 oz..... **$49.99**

4110 Compact AC Power supply – Includes a 2.9 Amp AC wall adapter and 13.8VDC Power Module. Perfect for QRP transceivers **$59.99**

AMERITRON 75 Amp Switching Power Supply



SPS-75 – Power 500W solid-state amplifiers like the AMERITRON ALS-500M, SGC SG-500 and other high current devices. Rated at **75 Amps** output continuously with less than 100mV peak-to-peak ripple under 75 Amp full load and regulation better than 1.5%. Has reverse polarity protection, brown out input protection, over-current and over-temperature protection. A quiet thermal-controlled fan keeps it cool. The *Output Boost* feature steps up output voltage from 13.8 to 14.2 VDC to compensate for power cable and connector loss. Input 108-132 VAC, 50/60 Hz (11 Amps). Can be used to conveniently charge vehicle and emergency back-up batteries. Dim: 6.5"w x 3.5"h x 10"d; lightweight, 7.8 lbs **$359.99**

Conventional 30 Amp Power Supply

- **Conventional, non-switching**
- **Massive 19.2 lb. transformer**
- **Adjustable 1 to 14 VDC**
- **Dual front panel meters**

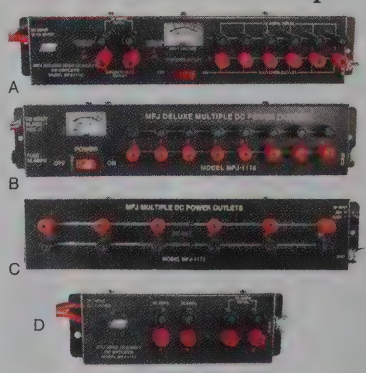
4035MV Super Heavy Duty! Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30 Amps continuous (35 Amps maximum) with regulation better than 1% and ripple voltage less than 30mV. Over-voltage, fold back and short circuit protected and variable-speed fan cooled. Plenty of connections – 3 sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, 2 pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories. Dim: 9.5"w x 6 "h x 9.75"d; 20.6 lbs..... **$149.99**

Can't find an MFJ item?

Give us a call at any **AES** location or email us online and we will get you price and availability!

This includes Ameritron, Hy-Gain, Mirage & Vectronics.

MFJ High Current DC Multi-Outlet Strips



Distributes high current 12V DC power for radios and accessories from your station's main DC power source. Keeps everything neat, organized and safe by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

1118 (A) Deluxe Multiple DC Power Strip – Distribute 12V DC to (2) radios and (6) or more accessories. Provides (2) pairs of heavy-duty 30 Amp, 5-way binding posts, all fused and RF bypassed, and (6) pairs of 15 Amp 5-way binding posts for accessories. Master fuse, on-off switch with power LED, built-in 25V voltmeter, 6 ft. 8 ga. cable. Dim: 12.5"w x 2.75"h x 2.5"d **$84.99**

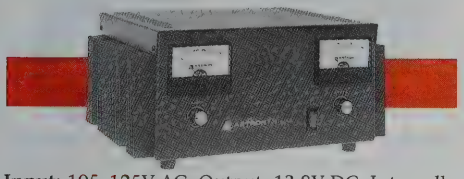
1116 (B) – Like the 1118 but without 30 Amp posts..... **$59.99**

1112 (C) – Similar to the 1116 but without on-off switch, power LED, voltmeter or fuse. Dim: 12.5"w x 2.75"h x 2.5"d..... **$44.99**

1117 (D) – Like the 1118 but without meter, power LED or on-off switch. Powers up to (4) radios with (2) 35 Amp single posts and (1) 35 Amp dual post. Dim: 8"w x 2"h x 3"d..... **$64.99**

ASTRON CORPORATION POWER SUPPLIES

The Low Cost alternative to those "matching" Power Supplies

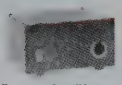


Input: 105–125V AC, Output: 13.8V DC, Internally adjustable from 11–15VDC.

Solid-state electronically regulated with fold-back current limiting and crowbar overvoltage protection. Heavy-duty heat sink. Three-wire AC power cord cord and chassis mounted fuse. One-year warranty– made in USA.

RS-20M, 35M, 50M and 70M have separate Volt and Amp meters. **VS-20ML, VS-35M and VS-50M** have separate V/A meters, plus 2-15VDC voltage adjustment. **RM-35M, RM-50M and RM-60M** are Rack Mount with separate V/A meters.

MODEL	Cont. Amps	ICS Amps	Dim: h w d (in.)	Shipping weight	PRICE
RS-7A	5	7	3.75 x 6.5 x 9	9#	$59.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11#	69.99
RS-12A	9	12	4.5 x 8 x 9	13#	79.99
RS-20A	16	20	5 x 9 x 10.5	18#	99.99
RS-35A	25	35	5 x 11 x 11	27#	149.99
RS-50A	37	50	6 x 13.75 x 12	46#	219.99
RS-70A	57	70	6 x 13.75 x 12	48#	279.99
Separate Volt & Amp meters					
RS-20M	16	20	5 x 9 x 10.5	18#	119.99
RS-35M	25	35	5 x 11 x 11	27#	169.99
RS-50M	37	50	6 x 13.75 x 11	46#	239.99
RS-70M	57	70	6 x 13.75 x 12	48#	299.99
Adjustable output; separate Volt & Amp meters					
VS-20ML	16	20	5 x 9 x 10.5	20#	139.99
VS-35M	25	35	5 x 11 x 11	29#	199.99
VS-50M	37	50	6 x 13.75 x 11	46#	259.99
Rack mount; separate Volt & Amp meters					
RM-35M	25	35	5.25 x 19 x 12	38#	259.99
RM-50M	37	50	5.25 x 19 x 12	50#	299.99
RM-60M	50	55	7 x 19 x 12	60#	389.99



RS-4L – 13.8V DC @ 4 Amps ICS, 3 Amps continuous. Built-in cigarette lighter receptacle in the front panel. Dim: 3.5"h x 6.5"w x 4.25"d; 6 lbs..... **$49.99**

SWITCHING POWER SUPPLIES

- Heavy Duty Design
- Low Profile
- Lightweight

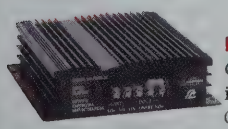
SS-25 – 12V DC, 25 Amps ICS, 20Amps continuous. Dim: 3"h x 7"w x 9.5"d; 4.2 lbs..... **$119.99**

SS-25M – Same as above but with Volt and Amp meters (pictured above) **$139.99**

SS-30 – 12V DC, 30 Amps ICS, 25 Amps continuous. Dim: 3.75"h x 7"w x 9.5"d; 4.5 lbs... **$129.99**

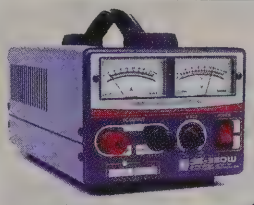
SS-30M Same with Volt/Amp meters ... **$149.99**

POWER INVERTERS



N2412-12 28V Aircraft Converts 22 to 32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into 28V battery for 12V devices.. **$59.99**

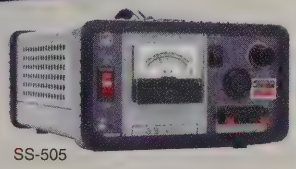
N2412-24 – Same as above, rated at 20A **$89.99**



SS-330W

SWITCHING POWER SUPPLIES

DAIWA



SS-505

SS-330W Regulated, Variable Switching Power Supply – Provides 5 to 15 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; 4.3 lbs..... **$169.99**

SS-505 Regulated, Variable Switching Power Supply – Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d; 8.4 lbs.....**$399.99**

DIAMOND ANTENNA SWITCHING POWER SUPPLY

GZV-4000 Switching Mode DC Power Supply with Built-in Speaker – 120V AC input with variable output 5 to 15V DC (knob has center detent at 13.5V DC), rated at 40 Amps continuous @ 100% duty cycle. Over temperature, overload and short-circuit protection with current foldback at approximately 42 Amps. Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line.Dim: 8.25"d x 13"w x 4.5"h; 8 lbs..... **$179.99**

AIM Light Duty POWER SUPPLIES

38-384

Light-duty DC Supply (right) – Input: 115 V AC; Output: 13.8V DC regulated @ 4 Amps. Front On/Off, binding posts and LED indicator. Fused. Dim: 7.75"d x 4.75"w x 3"h; 5.5 lbs..... **$59.99**

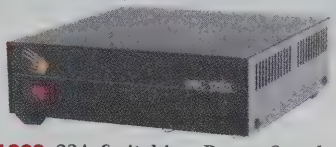
38-305

Universal AC/DC Adapter (left) – Plug into outlet. Switchable, converts 115V AC to 3, 4.5, 6, 7.5, 9 or 12V DC @ 500 ma. max. Includes seven different DC adapter plugs, including one for Sony products..... **$14.99**

SAMLEX AMERICA

SWITCHING POWER SUPPLIES

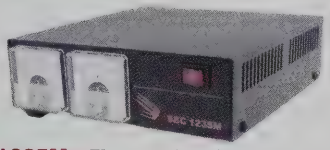
THE "Power Supply choice of radio manufacturers worldwide"



SEC-1223 23A Switching Power Supply – The perfect lightweight companion for 100 Watt-Class transceivers. Input: 110-120VAC, Output: 13.8VDC @ 23 Amps. UL approved. Also works on 200 to 240VAC input with a simple jumper change. Safety features include current limiting, short circuit and overvoltage protection. Quiet, thermal activated cooling fan.

3-year warranty – "no questions asked"

Dim: 7"w x 2.1"h x 7.1"d; 3.3 lbs..... **$99.99**



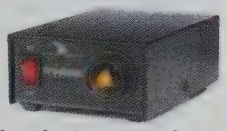
SEC-1235M – This unit has the same dimensions as model SEC-1223 above. 100-130VAC, 13.8VDC.

- Best power supply value available today
- 30 Amps continuous, 35 Amps intermittent
- **3 year warranty** – "no questions asked"
- Thermal activated fan. **No hash**
- UL + cUL Safety approved, FCC compliant
- Fully protected – voltage, current, short-circuit
- Perfect for all 100-200 Watt applications

Dim: 7"w x 2.1"h x 7.1"d, 4 lbs **$139.99**

SEC-1235 – Same as to 1235M above, but without Volt and Amp meters **$119.99**

SPS-1204UL

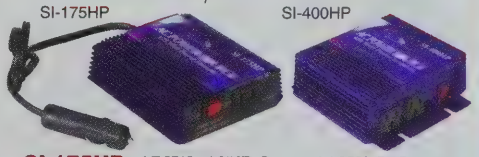


Switching Power Supply Small and lightweight. Provides highly regulated power to a cigar lighter socket on the front panel and wire terminals on rear. Input: 110-125VAC, 13.8VDC output @ 3.5 Amps. Over-voltage protection and current limiting, illuminated on/off switch, UL and cUL approved. Dim: 2"h x 4"w x 6.3"d; 2 lbs ... **$29.99**

DC to AC POWER INVERTERS

Modified sine wave

SI-175HP SI-400HP

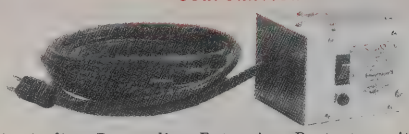


SI-175HP 175W 12VDC to 110VAC Inverter Useful anywhere when 110VAC isn't available in boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter plug 10-15VDC input, 115V RMS output at 175W continuous, 350W surge. Dim: 1.6"h x 4.7"w x 5.4"d; 1.8 lbs..... **$29.99**

SI-400HP 400W 12VDC to 115 VAC Inverter Similar to the SI-175HP above, but higher 400W rating. Cigar lighter plug input connector and battery clamp included. Input Voltage: 10-15 VDC, 115V RMS output; 400W continuous, 800W surge. Dim: 2.4"h x 6.3"w x 6.3"d; 2.9 lbs..... **$49.99**

POWER LINE SURGE SUPPRESSORS

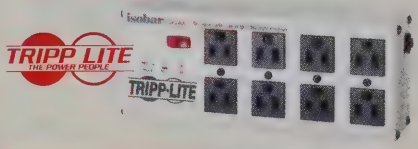
PolyPhaser CORPORATION



An in-line Power line Extension Protector with multi-strike capability, filtering and proper grounding for a 120V AC line. Two grounded outlets, power switch, and circuit breaker.. Heavy duty all aluminum grounded enclosure and power cord. Dim: 4.75 in. wide.

PLDO-120US15A – 15A, 15 ft. cord. C/O **$149.99**

PLDO-120US20A 6 ft. cord, 20A... **$199.99**



ISOBAR-8 ULTRA Premium Surge, Spike and Noise Suppressor – 8 widely spaced outlets in 4 isolated filter banks provide a massive 1,200 joule, 96,000 Amp spike suppression and isolation between connected equipment. Rugged all metal housing won't break or burn. Diagnostic LEDs confirm power availability, line fault and protection status. Lighted On/Off switch and 15 Amp circuit breaker. Includes 12 ft. AC line cord with space-saving angled input plug, keyhole mounting tabs and child safety covers. Dim: 7.25"W x 2.25"h x 3.5"d **$79.99**

SUPER-7 Protect it™ Surge Protector – 7 outlets including 3 transformer outlets. 2350 joule rating, handles strongest surges. On/Off switch, circuit breaker, *"Connected"* & *"Grounded"* LEDs, 7 ft. cord with right angle plug. **$19.99**

SUPER-7+TEL – Same, but with additional surge protection for modem, fax or telephone.. **$29.99**

AMERITRON

ICP-120/240 In-Rush Current Protector – Limits initial Power On in-rush current and absorbs momentary voltage spikes.
ICP-120 (110-120V) or
ICP-240 (220-240V)..... **$79.99**

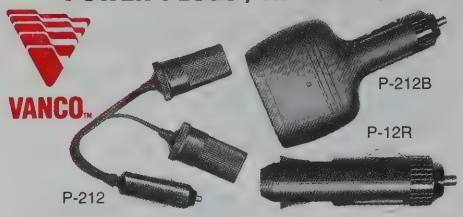
MFJ

850B AC Line Voltage Monitor Plug into a wall outlet and monitor AC line voltage. The color coded scale lets you read from 95 to 135V AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75"w x 4"h x 1.1"d.... **$24.99**

633 Intelligent Charger Charges (2) or (4) NiCad and NiMH AAA, AA, C, D size batteries and (1) or (2) 9V. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. *Discharge Mode* deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. Use on 120 VAC or 12 VDC..... **$29.99**

POWER PLUGS / ADAPTERS

VANCO



P-212 2-Outlet Cigarette Plug Adapter – Allows use of two 12V accessories from 1 outlet **$4.99**

P-212B Dual Cigarette Socket – Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse **$8.99**

P-12R 2-Contact Cigarette Plug – Solder type with strain relief and grip end..... **$2.99**

P-12V Cigarette Plug – Cigarette lighter plug similar to 12R but with connecting leads **$2.99**

P-12X Cigarette Lighter Plug – Easy to use solderless plug. Wires crimp to terminals **$1.99**

NCG™ COMPANY

Power Pocket

Portable Power for emergencies, hamfests, hiking, etc. The 12V @ 2 Amp/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6 to 8 hours with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Includes a compact carrying case with belt loop and shoulder strap. Dim: 3.5"w x 1"d x 6.5"h, 30 oz... **$66.99**

RECHARGEABLE BATTERIES

MAHA MH-R-AA4 | MAHA AAA-T | MAHA MH-9.6V200 | MFJ 92AA01

Maximum life • Memory-free operation
Rechargeable hundreds of times
Excellent for high current applications

MAHA Rechargeables

MH-R-AA4 – 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case ... **$14.99**

AAA-T – 1.2V, 650mAh AAA NiMH..each **$2.99**

MH-96V200 – 9.6V, 200mAh NiMH..ea. **$12.99**

MFJ Rechargeables

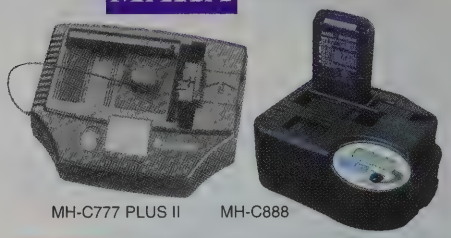
92AA01 – NiMH AA's..... each **$3.49**

92AA10 – Same as above 10-pack **$29.99**

REPLACEMENT HT PACKS

MAHA's replacement battery packs can increase your handheld's performance up to two times. Refer to the Price Guide under MAHA for a list of packs for Yaesu, Icom, and Kenwood radios.

MAHA CHARGERS



MH-C777 PLUS II MH-C888

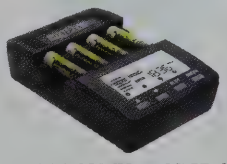
MH-C888 Universal Drop-In Rapid Charger and Conditioner – Incorporates special FLEX negative pulse feature to prevent crystallization when charging 4.8-12V NiMH/NiCad battery packs. Deep-conditioning feature does three consecutive charge and discharges before final charge. Built-in switching AC power supply and 12V cord..... **$59.99**

MH-C777 PLUS II Smart Universal Charger and Analyzer/Conditioner – Charges most NiMH, NiCad, Li-ion and Li-polymer battery packs. Built-in circuitry with LCD status automatically senses battery voltage. Includes external 110V switching power supply and 12V cord with cigarette lighter; Discharge-only feature retains discharged battery capacity on screen; Enhanced Li-ion algorithm reduces charging time ..... Closeout **$74.99**

MH-K5000 MH-C801D

MH-K5000 One-Hour Travel Charger Worldwide use with an integrated 100-240V, 50/60 Hz switching supply. Revives and conditions poorly performing batteries. Four charging phases: startup charge; rapid charge; top-off charge and maintenance charge. Leave batteries in for extended time without overcharging. Recharge (2) AA/AAA batteries in around one hour; (4) AA/AAA batteries in about two hours. Compact, 4 ounces. Includes (4) AA 2500 mAH NiMH batteries..... **$39.99**

MH-C801D Eight Cell One-Hour Charger Features eight independent circuits that charge one to eight AA or AAA batteries in any combination. A large LCD screen displays the charging status of each battery (charge, done, conditioning, etc). Choose between a soft charge and fast charge mode. The soft charge delivers the highest battery life and allows 100% compatibility with older, lower capacity batteries. Fast charge allows eight batteries to be fully charged to their maximum capacity in around one hour. Conditioner will charge, deep-discharge and recharge batteries automatically. Includes a 110-240V, 50/60Hz switching power supply.. **$84.99**



MH-C9000 *WizardOne* **Battery Charger & Analyzer** Capable of charging, conditioning, analyzing, cycling, forming and discharging (1) to (4) AA or AAA NiMH or NiCD batteries. Digitally displays capacity and voltage on LCD screen. In addition to the standard charging, conditioning and discharging, there are two other operations modes. "Break-In" mode performs a "forming" charge designed to properly break-in new batteries. "Cycle" mode allows user to charge and discharge batteries consecutively for up to 12 cycles. Independent negative delta V, temperature and timer protection eliminates over and undercharging. Light weight and small. Worldwide 100-240V switching adapter. Also works with 12V in a vehicle when used with a cigarette lighter adapter..... **$69.99**

West Mountain Radio

RIGrunnner

A convenient and safe way to connect to a 12V DC source and distribute it to all equipment, base or mobile No messy binding posts, frayed wire connections, black tape or short circuits. Eliminates those wall warts.

- Now **Anderson PowerPole®** crimp or solder connectors provide a safe secure, hot connect, polarized, color keyed, genderless connector system
- 5 models, conservatively rated at up to 80 amps
- Each outlet is individually fused with an automotive ATC/ATO fuse. Open fuse LED shows status
- Conforms to ARES, RACES, RSGB and ARRL recommendation for high current 12VDC connectors

RR/8012/C Intelligent DC Power Panel, 12 Outlets, 80 Amps maximum – DC voltage monitor and alert, internally detachable 6 ft. 8 ga. power supply cable and 12 pair of Anderson Powerpole® crimp or solder connectors **$149.99**

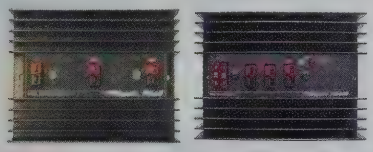
RR/4010S/C DC Power Panel, 10 Outlets, 40 Amps maximum – One "always on" outlet and nine automatic or manually-controlled switched outlets. An on/off system controls entire station with the power button on your rig. Status LED and audio alert voltage monitor. Includes 6 ft. power supply cable and 12 pair of Powerpole® connectors..... **$139.99**

RR/4012/C Intelligent DC Power Panel, 12 Outlets, 40 Amps maximum – LED voltage monitor indicates normal voltage, LEDs and audio alert for over or undervoltage conditions. Includes 6 ft. power supply cable with 12-pair of Anderson Powerpole® connectors. Dim: 11.8"w x 2.7"h x 1"d..... **$129.99**

RR/4008/C 8 Outlets, 40 Amps maximum – LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12-pair crimp or solder connectors. Dim: 5.75"w x 2.7"h x 1"d. **$109.99**

RR/4005/C 5 Outlets, 40 Amps maximum – A DC power panel for small mobile installs or as expansion for existing panel. Includes 6 ft. supply cable and 6-pair of connectors. Dim: 5.75"w x 2.7"h x 1"d..... **$79.99**

WHAT/MTR – Connects directly into any circuit equipped with Powerpole connectors. The LCD readout shows supplied Voltage, Amperage, Ampere/hours and Watts, automatically and simultaneously. Reads up to 60 VDC, 75 Amps and 94 Amp/hours. Dim: 3.8"w x 2.1"h x 0.9"d... **$69.99**



PG-40 PWRgate Backup Power System (left)
A must for the Hamshack, Repeaters, Emergency Communications Centers, etc. Keeps equipment operational during power failures by instantly switching to a back-up 12V battery or power supply (not supplied). Rated up to 40 Amps continuous and a built-in mini-charger keeps the connected battery fully charged and ready for emergency operation. Output via Anderson 40A Powerpoles®, connectors are not supplied. Dim: 1.64"h x 3.9"w x 5"d..... **$69.99**

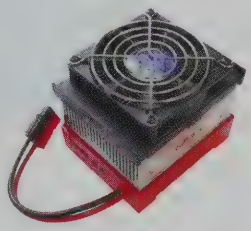
PG-40S Super PWRgate 12V Backup System (right)
Similar to PG-40 but includes a built-in four-stage battery charger with selectable current rates of 1, 4, 7 or 10 amps. The charger circuit is optimized for use with GELLED & AGM type batteries, but will keep flooded lead acid and marine type batteries near full charge as well. The Super PWRgate and a connected power supply may also be used to charge a battery that is powering a radio in operation..... **$129.99**

Anderson PowerPoles®

C30/PK/12 – 30A PowerPoles® .... 12 pair **$11.99**
C45/PK/12 – 45A PowerPoles® .... 12 pair **$17.99**

PWR/TOOL Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps every time..... **$49.99**

CBA-2 Computerized Battery Analyzer



Test virtually any type or size of battery, any chemistry, any number of cells up to 48 Volts. Capable of up to 40A or 150W, whichever is higher. Determines A/H battery capacity, and displays voltage versus amp-hours which may be saved and printed. Quiet fan cooling and LED status indicators. Works plug-and-play with your computer. Includes program on CD-ROM and 6 ft. USB cable **$109.99**

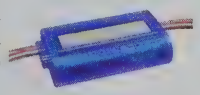
CBA/TEMP Temp Probe for CBA-2 ..... **$11.99**

RT-1 RigTalk USB to serial converter with TTL output – Provides USB Serial control or programming of any radio with a TTL level interface, CAT or CI-V. Compatible with USB 2.0 or lower. Convenient pocket sized USB dongle design. Comes with a CD-ROM provides plug and play installation and includes a collection of software. Cables available for all ICOM and TEN-TEC CI-V controllable radios and YAESU CAT..... **$49.99**

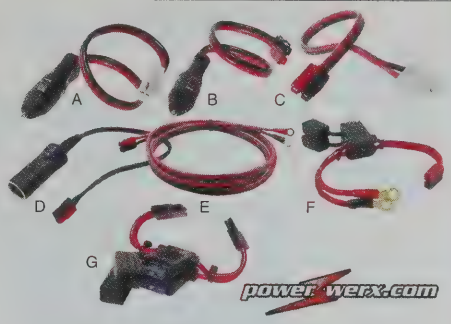
CATMINI/CBL Yaesu Cable for RT-1 ..... **$12.99**
CIV/CBL ICOM/TEN-TEC Cable/RT-1 ..... **$8.99**

APO-3-PP Automatic Power Off Switch – Prevents vehicle battery discharge. Automatically switches radio off 5, 10 or 20 minutes after the vehicle is shut off. Input: 7 to 20V DC @ 30 amps holding/20 amps switching. PowerPole equipped ends. Dim: 3.3"h x 4.75"w x 1.35"d, 5.5 oz **$59.99**

BT-JUNIOR Battery Tender Junior Jr. – A 110 VAC to 12VDC @ 0.75A trickle charger to keep your lead-acid, flooded or sealed maintenance free batteries (AGM and gel cell) battery fully charged. Four-step charging program (Initialization, Bulk Charge, Absorption Mode, Float Mode). Reverse polarity protected; 12 ft. output cord. Dim: 3.3"w x 2.3"h x 1.8"d..... **$29.99**



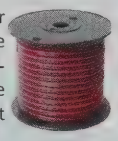
"Watt's Up" Meter – Install in a PowerPole® equipped circuit and measure eight parameters: Amp hours, Watt hours, voltage, Watts, peak current, peak power and voltage sag. PowerPoles are installed on both ends..... WATTBLUPPC **$59.99**



DC Power Connections

CIG2OEM515A Cigarette Lighter Plug (A) – 5 ft. fused (15 amp AGC) to OEM-T Male plug.. **$14.99**
CIG2PP515A Cigarette Lighter Plug (B) – 5 ft. fused (15 amp AGC) to Powerpole..... **$14.99**
PP2OEM5 (C) – 5 ft. Powerpole to OEM "T" Male connector, 15 amps **$14.99**
SOCPP115A (D) – 1 ft. Cigarette Lighter Socket, internal ATC 15 amp fuse, Powerpole end... **$14.99**
PP452RING10G (E) – 6 ft., 10 gauge Power Supply Cable with 45 amp Powerpoles and 1/4 inch gold plated Ring terminals..... **$13.99**
RINGATC1040A (F) ATC-style 10 gauge fuse holder with 45 amp Powerpoles mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 40 amp ATC fuses **$14.99**
RINGATC1215A (F) ATC-style 12 gauge fuse holder with 30 amp Powerpoles mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 15 amp ATC fuses..... **$12.99**
PPATC1040A (F) ATC-style 10 gauge fuse holder with 45 amp Powerpoles mounted on each end. Includes (2) 40 amp ATC fuses..... **$14.99**
PPATC1215A (G) ATC-style 12 gauge fuse holder with 30 amp Powerpoles mounted on each end. Includes (2) 15 amp ATC fuses **$12.99**

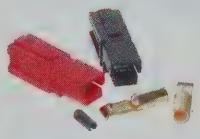
Red/Black DC Zip cord



Made for use in 12-volt DC power applications with extra flexible soft bare copper stranding for maximum flexibility and conductivity. The automotive grade PVC insulation is oil, gas resistant and usable over a -40 to 175°F range.

RB-12-25 25 ft. 12 gauge **$22.99**
RB-14-25 25 ft. 14 gauge **$14.99**

PowerPole® Connectors



High current, low loss electrical connectors which can be soldered or crimped. The 30 Amp rated terminals fit 18 to 12 ga., and 45 Amp rated, up to 8 gauge wire. ARES, RACES, RSGB accepted.

PPRB3010 10 pair 30A Powerpoles **$9.99**
PPRB3025 25 pair 30A Powerpoles..... **$19.99**
PPRB4510 10 pair 45A Powerpoles..... **$14.99**
PPRB4525 25 pair 45A Powerpoles..... **$29.99**
PPRB7582 2 pair 75A Powerpoles, 8 ga. **$7.99**

Red-Dee-2™ Power Splitters

Power distribution when using PowerPole® equipped cables. Minimum power loss and convenience. All are rated to handle 45 amps @ 58 VDC. Not fused.

PS-4 (A) ..... **$14.99** **PS-6AA** (C) **$31.99**
PS-4 Plus (B) **$14.99** **PS-8** (D)..... **$24.99**

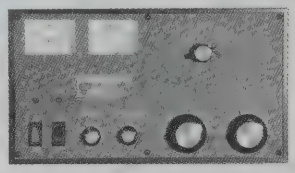
CT-2 Crimping Tool for 15, 30 & 75 amp PowerPoles **$12.99**

AMERITRON

811A HF Amplifiers

- Covers 160-15M, including WARC band
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input; ALC Control; Quiet Air Cooling
- Dual Meters (Plate Voltage, Grid and Plate Current); Vernier Reduction tuning
- Dim: 15.5"d x 13.75"w 8.25"h; Weight: 52 lbs.

NOTE: 10/12 meter Modification Kits for Ameritron Amps are available to licensed Hams direct from Ameritron

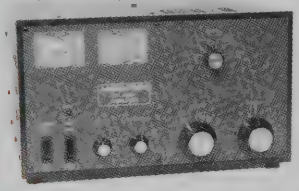


AL-811 – Uses (3) 811A transmitting tubes. Delivers 600W PEP output SSB/500W CW **$719.99**

AL-811H – Uses (4) 811A transmitting tubes. Delivers 800W PEP SSB/600W CW **$869.99**

3-500Z HF Amplifier

- Covers 160-15M, including WARC bands
- A Full KW PEP! (70% efficiency)
- HD silicone steel core Plate Transformer (26 lbs) and Computer Grade capacitors
- Tuned Input; Adjustable ALC; Air Cooled
- Dual Cross-needle meters (SWR, PEP power, Plate voltage, Grid and Plate current)
- Operates from 90-140VAC or 205-250VAC
- Dim: 15.5"d x 14.5"w x 18.5"h; Weight: 48 lbs.



AL-80B – Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB/850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA..... **$1299.99**

Solid State HF Mobile Amplifier

ALS-500RC

ALS-500M – Increase your HF mobile power up to 500W PEP / 400W CW with continuous coverage 1.5-22 MHz. Uses (4) 2SC2879 solid-state devices. Instant bandswitching, no tuning, no warm-up and SWR protection. Runs nicely from 13.8 VDC mobile electrical system drawing 80 Amps peak current. Dim: 3.5"h x 9"w x 15"d; 7 lbs..... **$749.99**

ALS-500RC Remote Head – For ALS-500M amplifiers SN:13049 & up. Features: Band select, On/Off switch, current meter and TX/overload LEDs. **$49.99**

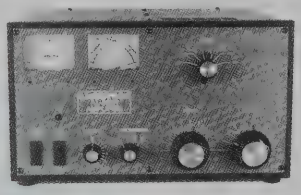
Solid State Base Amplifier

ALS-600 – No warm up, no tune up, just turn on, select band, and operate. Uses (4) 2SC2879 solid-state devices with 600W PEP / 400W CW output and continuous coverage 1.5-22 MHz. SWR and power protection. Includes separate AC power supply. Dim: 6"h x 9.5"w x 12"d, 30 lbs..... **$1129.99**

ALS-600S – Similar but with ALS-600SPS lighter weight switching power supply, 22.5 lbs **$1249.99**

3CX-800A7 HF Amplifiers

- Cover 160-15M, including WARC bands
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Dim: 8.5"h x 16.5"w x 13.75"d; Weight: 52 lbs.

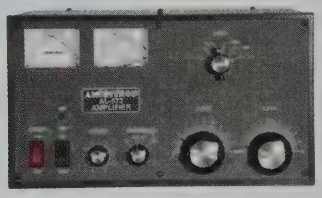


AL-800 – Uses as a single *Eimac*® 3CX800A7 tube. Delivers 1250W PEP SSB output..... **$1869.99**

AL-800H – Uses (2) *Eimac*® 3CX800A7 tubes. Delivers 1500W PEP SSB output..... **$2799.99**

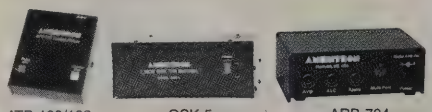
572B HF Amplifier

- Covers 160-15M, including WARC bands
- Heavy Duty silicone steel core Plate Transformer
- Instant 3 second warm up
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8.5"h x 15.5"w x 14.5"d; Weight: 40 lbs



AL-572 – This *Near Legal Limit*™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier **$1399.99**

AMPLIFIER ACCESSORIES



ATP-100/102 QSK-5 ARB-704

ATP-100
Tuning Pulser – Pulses your transceiver to safely tune up your RF power amplifier. Prevents overheating, tube damage, power supply stress..... **$69.99**

ATP-102 Deluxe Tuning Pulser – Similar but with variable pulser and delay **$79.99**

QSK-5
Pin diode T/R Switch – Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW ... **$339.99**

QSK-5PC – PC board version of QSK-5 .... **$259.99**

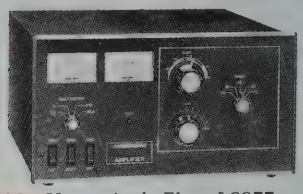
CF-5 Cooling Fan – for QSK-5..... **$39.99**

ARB-704
Interface Buffer – Prevents damage to radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Use ARB-704I2 for IC-706/7000 only..... ea **$59.99**

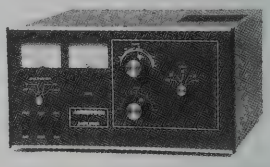
Various "Plug & Play" Interface Cables for Ameritron Amps - See Page 4 in the Price Guide

Super Legal Limit Amplifiers

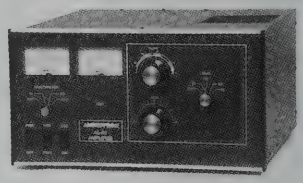
- Cover 160-15M, including WARC bands
- Strong Stainless Steel Chassis
- Highly efficient tape wound Hypersil® Plate Transformer, up to 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Dim: 18"h x 17"w x 10"d; Weight: 77 lbs.



AL-1500 – Uses a single *Eimac*® 8877 ceramic tube. Only 65W of drive power delivers full legal 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned **$3049.99**



AL-1200 – Uses Ham radio's toughest tube, the *Eimac*® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for 1/2 hour **$2999.99**



AL-82 – Uses (2) 3-500Z tubes. Delivers a full 1500W output which is more than other 3-500Z linears because their lighter weight power supplies can't use these tubes to their full potential **$2299.99**

Transmitting Tubes

6146B 811A 572B

6146B Beam-power Pentode – Replacement finals for older ham gear: B&W, Collins, Globe, Hallicrafters, Heathkit, Johnson, etc. Rig may require minor alignment..... **$29.99**

811A Power Triode – For Ameritron, Collins, Heath and other power amplifiers..... **$19.99**

572B High-mu Power Triode – A direct drop-in replacement in equipment using the 811-A or T-160. Uses a graphite anode with a 160W average plate dissipation, that provides enhanced overload capability and enhanced reliability **$49.99**

3-500ZG-RFP Power Triode
Mechanically and electrically, an exact copy of the Eimac 3-500ZG. Constructed with a high-dissipation graphite anode..... **$209.99**

12BY7A Sharp-Cutoff Pentode – Used as driver in older Kenwood and Yaesu transceivers..... **$34.99**

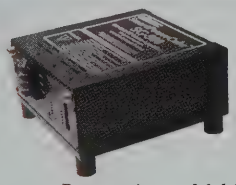
HF POWER AMPLIFIERS

PW-1 HF/50 MHz Linear Amplifier – Covers 160 to 15M and 6 Meters. Power output with 100W drive is 1000W SSB/CW & RTTY when powered with 80 to 264V AC or 500W with 90-132V AC; 100% duty cycle, QSK. Features include: Automatic band change, Built-in all band automatic antenna tuner, Automatic AC voltage selector, Current, voltage, temperature, high SWR and output power protection, Wide range ALC that adjusts to almost any rig. The control head is detachable and remoteable. Built-in power supply. Two exciter input connectors and 4 output connectors. Comes with controller separation cable, ACC cables, coax jumper with PL-259s. Dim: 14"w x 10.5"h x 14.5"d; 56 lbs..... **$4699.99**

YAESU
Choice of the World's top DX'ers™

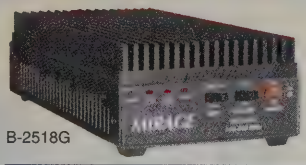
VL-1000/VP-1000 QUADRA SYSTEM
HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply
Covers 160 to 15 Meters, plus 6 Meters. Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6 meters) with 80W of drive. No tune-up automatic bandswitching with FT-1000, FT-1000MP, FT-1000MP MK-V, MK-V FIELD, FT-920, FT-2000 series and FT-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The large dot-matrix LCD provides amplifier status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks output jacks for versatile equipment and antenna configurations. Dim: (Amp) 16.25"w x 5.9"w x 17.7"d, 46.3 lbs. (PS) 16"w x 5.9"h x 15"d, 32.2 lbs..... **$3899.99**

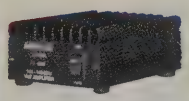
SGC

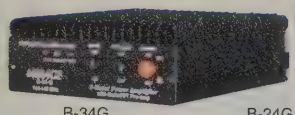


52-96 SG-500
SmartPower Cube™
Microprocessor Controlled Linear Amplifier
For 500W operation on your Base station or Mobile. Designed for maximum reliability and for unattended operation where access is limited. Microprocessor control automatically selects band; adjusts amplifier input sensitivity; monitors all parameters for faults (heat, high VSWR, under voltage, etc.); automatic shutdown at fault. Front panel LED status indicators. The most advanced self-protection on the market. Covers 1.6 to 24MHz, rated at 500W PEP SSB and 500W CW (with optional fan) with 80W drive. Less than 1 cubic foot of space. Requires 14VDC 40A average (SSB), 90A peak (CW). Dim: 6.1"h x 11.4"w x 12.25"d; 21 lbs. **$1299.99**

MIRAGE VHF & UHF POWER AMPLIFIERS


B-2518G


B-34


B-34G

B-24G

Mobile or Base Operation • Wide range of input and output levels • FM, SSB & CW modes (FM only, some models) • Built -in high-gain low-noise GaAsFET receive preamplifier on several models • Rugged construction, heavy duty heat sink • Protection for high SWR, overdrive and overheating • Remote control capability with optional remote head

Model	Frequency Range	Modes	Power Input	Maximum Output	Volts DC	DC Amps	Pre Amp	AES PRICE
6-Meters								
A-1015G	50-52	SSB/CW/FM	1-15W	150W	13.8	20	Yes	**$359.99**
2-Meters								
B-34	144-148	FM	1-8W	35W	13.8	4	No	**$99.99**
B-34G	144-148	SSB/CW/FM	1-8W	35W	13.8	4	Yes	**119.99**
B-1018G	144-148	SSB/CW/FM	0.25-15W	160W	13.8	30	Yes	**369.99**
B-2518G	144-148	SSB/CW/FM	10-30W	160W	13.8	30	Yes	**299.99**
B-2530G	144-148	SSB/CW/FM	10-35W	300W	13.8	48	Yes	**679.99**
B-5018G	144-148	SSB/CW/FM	20-60W	160W	13.8	30	Yes	**299.99**
B-5030G	144-148	SSB/CW/FM	20-60W	300W	13.8	15	Yes	**669.99**
B-310G	144-148	SSB/CW/FM	0.25-8W	100W	13.8	15	Yes	**219.99**
B-320G	144-148	SSB/CW/FM	0.25-50W	200W	13.8	25	Yes	**459.99**
222-225 MHz								
C-1022G	222-225	SSB/CW/FM	1-10W	220W	13.8	48	Yes	**$699.99**
C-2512G	222-225	SSB/CW/FM	1-40W	120W	13.8	25	Yes	**309.99**
430-450 MHz								
D-1010N	430-450	SSB/CW/FM	0.3-15W	100W	13.8	15	No	**$379.99**
D-3010N	430-450	SSB/CW/FM	5-45W	100W	13.8	20	No	**349.99**
D-1010ATVN	420-450	ATV	1-15W	52W	13.8	20	No	**399.99**
DUAL BAND (2M/440 MHz)								
BD-35	144/440	FM	0.3-7W	45/35W	13.8	7	No	**$169.99**
HT DOCKING BOOSTER								
B-24G	144-148	FM	1-5W	50W	13.8	7	Yes	**$109.99**

N = Type-N connectors

REPEATER AMPLIFIERS

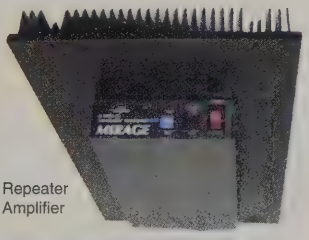
CONTINUOUS DUTY
all mode FM/SSB/CW for 6 & 2M, 220 MHz & ATV
All Models are Special Order

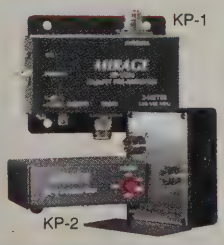
Model	Frequency Range	Power Input	Max Output	Volts DC	DC Amps	AES PRICE
6-Meters						
A-1015R	50-54	3-4W	110W	13.8	16-18	**$529.99**
A-1015NR	*Same as C-1015R but Type-N connector*					**549.99**
220MHz						
C-211R	223-225	0.3-0.6W	80W	13.8	15-16	**$599.99**
C211NR	*Same as C-211R but Type-N connector*					**619.99**
C-1012R	222-235	5W	90W	13.8	16-18	**599.99**
C-1012NR	*Same as C-1012R but Type-N connector*					**619.99**
C-2512R	223-225	13-15W	90W	13.8	13-14	**569.99**
C-2512NR	*Same as C-2512R but Type-N connector*					**589.99**
440 MHz						
D-1010NR	440-450	2-4W	80W	13.8	14-15	**$629.99**
D-3010NR	440-450	10-12W	80W	13.8	11-1	**599.99**
430 MHz (AMATEUR TELEVISION)						
D-1010ATVNR	420-450	2-4W	80W	13.8	14-15	**$629.99**

REMOTE CONTROL HEADS

RC-1 – Remote control for amplifier functions: Power On/Off, Preamp On/Off, SSB or FM mode. Includes 25 ft. control cable. Dim: 1.75"h x 3.75"w x 2.5"d **$49.99**

RC-2 – Use with model 5018G, 2518G & 1018G amplifiers. **$49.99**


Repeater Amplifier


KP-1
KP-2

LOW NOISE RECEIVE PREAMPS

High gain ultra low noise GaAsFET preamps boost weak signals on VHF and UHF for improved reception and compensation for feedline loss. Provides 15-22 dB Gain with < 0.8 dB NF. Selectable gain prevents receiver intermodulation. In-line installation, automatic T/R switching up to 160 Watts. In-shack or outside mast mount, type-N connectors. Requires 12-15V DC. Dim: 4.25"w x 2.3"h x 0.9"d

In-Shack Models – **$139.99** each
KP-1/6M (50-54) / **KP-1/2M** (144-148)
KP-1/440 (430-450 MHz)

Mast Mount Models – **$184.99** each
KP-2/6M (50-54) / **KP-2/2M** (144-148)
KP-2/440 (430-450 MHz)

Microphones • Microphone Elements • Accessories

GM Series

Provides full-range, smooth and articulate audio for AM, FM and "hi-fi" SSB. The wide 60–16 kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio, and adds a well-balanced robust low end. There's a second switch selectable **HC-4** or **HC-5** element to provide *extra punch* when needed. A "soft touch" microswitch provides smooth, noise-free PTT operation. The die-cast body is finished in high luster black lacquer and topped with a golden grill. Requires a CC-1 adapter cord.

GM-4 GM with Full Range and HC-4 elements..... **$145.99**
GM-5 GM with Full Range and HC-5 elements **$145.99**

HM-10-DUAL

The great sounding Heil microphone that has been on the Ham bands for years. The **HM-10-Dual** has both the HC-5 "Full Range Articulation" element that makes your rig sound better and more intelligible and HC-4 "DX Dream Machine" elements, switch selectable. Requires a CC-1 adapter. **HM-10-DUAL**. **$128.99**

PRE-PRO ICOM

Built with a special electret condenser element that provides plenty of output, great sound and punch for the older ICOMs that are low in mic gain. Platinum finish, soft touch PTT switch. Includes an 8-pin ICOM mic. cable. **ICM** ... **$105.99**

CLASSIC

A 1930's RCA 74B exact replica, all metal construction. Dual elements, featuring a broadcast dynamic element, and choice of the second (HC-4 or HC-5) communications element. Element switch and soft touch PTT on the back panel. Select 600 or 30k ohms impedance. The stainless steel trimmed cast steel base and the logo rotates for boom mounting. Call letters available from Heil after purchase. Shown with CB-1 stand, not included. Requires a CC-1 adapter cable.

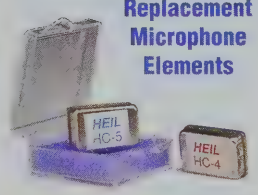
HCL-5 (with HC-5 element)..... **$245.99**
HCL-4 (with HC-4 element) ..... Closeout **$199.99**

STUDIO

PR-20 Proline Dynamic Cardoid Microphone – For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz–18 kHz response. 5/8" x 27 mount assembly..... **$150.99**

PR-40 Large Diameter Studio Microphone – New element technology with a response from 28 Hz to 18 kHz with a mid-range rise for gorgeous vocal articulation. **$325.99**

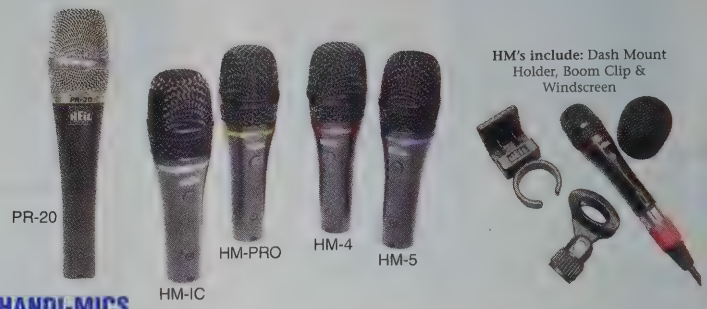
PR-781 Proline Dynamic Microphone – Features full-bodied tone quality, with crisp high-frequency articulation. Works well with the Yaesu FT-1000MkV, FT-DX9000, Kenwood TS-2000/870/850, the Icom IC-7800 and all of the PRO models. Balanced 600 ohms, 3-pin output, requires an CC-1 XLR cable. Black satin epoxy finish. Comes with an SM-3 mount, does not include base . **$179.99**



Replacement Microphone Elements

HC-5 Full Range Articulation Element Make your rig sound better and more intelligible to the listener by providing full articulation and more clarity than a stock microphone can provide. A 350 to 4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak at 2100 Hz produces very clear, easy-to-understand audio that will get you lots of compliments **$45.99**

HC-4 The "DX Dream Machine" Element – Produces super audio clarity with more PUNCH for difficult conditions like contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where SSB signals need maximum penetration and intelligibility. Designed with 500 to 3800 Hz response with a 10dB peak @ 2000 Hz and 12dB per octave roll off @ 500 Hz which gives it a sharp sound that really penetrates under difficult conditions, but is not real pleasing to the listener for everyday use **$45.99**



HANDI-MICS

Here are four clean and clear sounding Handi-Mics; each for different applications, mating to different rigs and inputs. A very comfortable tactile PTT switch is incorporated on four of the models. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes a unique dash mount holder, boom clip and a windscreen.

HM-4 with HC-4 "DX Dream Machine" element and PTT button..... **$85.99**
HM-5 with HC-5 Full Range Communications element and PTT..... **$85.99**
HM-IC with Electret element, for most ICOM rigs and PTT **$85.99**
HM-PRO with wide range Broadcast element and PTT **$85.99**

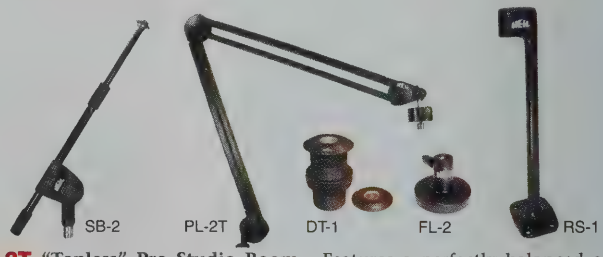
BASES, BOOMS & MOUNTS

CB-1 Classic Base – A reproduction of an RCA microphone base. The heavy, 2 lb. 7 oz. cast steel with stainless steel trim is solid and stays put. Dim: 4"w x 6-1/2"d x 3/4"h with 3 inch high, 5/8" x 27 threaded microphone mount **$60.99**

CB-1-PTT Classic Base with soft PTT switch (pictured)..... **$70.99**

TM-1 Tri-Mount – Holds up to three microphones on 5/8" x 27 thread mounts for convenient multi-rig operation **$14.99**

SM-1 Spider Shock Mount – For GM, HM or "icm" microphones. An 8-point flexible suspension supports and isolates microphones from mechanical vibrations. The 3/8" x 27 threads mount to the PL-2T or other microphone stands and booms. Give your shack a great "studio" look! **$72.99**



PL-2T "Topless" Pro Studio Boom – Features a perfectly balanced arm with silent internal springs and removable tops that simplify hiding the microphone cord inside the channels. It puts the microphone right where you want it, providing a 41 in. reach. Balanced for microphones up to 2 lbs. Comes with a "C" clamp table mount. Accepts 5/8" x 27 threaded microphones – or for real class, attach a Heil SM-1 Ultimate Shock Mount System..... **$109.99**

SB-2 Small Microphone Boom Extends from 10 to 24 in., with angle adjustments for positioning. Has a standard 5/8" x 27 thread microphone mount and secures to an edge with a "C" clamp, or into a 1-3/8" hole..... **$55.99**

DT-1 Desk top Flush Mount – Allows Heil booms to slip into into a 1-1/2" hole drilled into your desk top **$31.99**

FL-2 Flange Mount –Mounts PL-2T directly to desk top..... **$25.99**

RS-1 Riser – A 12 in. high flange mount that allows the PL-2T studio boom to mount elevated BEHIND the radio so the boom can be brought down into position OVER the radio..... **$25.99**

ACCESSORIES

See Heil on Page 10 in the Price Guide for Adapter Cables and Accessories

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Headsets • Boomsets

PRO–SET Quiet Phone Series

The Heil QUIET PHONE series applies a unique active Noise Canceling Technology using two small out-of-phase microphones and a differential amplifier inside the headphones. They pick up the outside ambient noise as well as the audio information. Using the phase information the differential amplifier reduces sounds under 400 Hz up to 70%. The result is a dramatic reduction of ambient noise as well as noise from blowers, jet engines, the TV in the next room and other operators in the shack.

PRO-SET QUIET PHONE

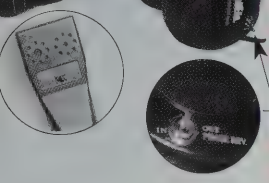
The Heil **PRO-SET** needs no introduction. It's a lightweight headset/boom microphone with a flexible boom and a choice of microphone elements. It has become the defacto standard for leading DX and contest operators worldwide but now, the PRO-SET is available with the exclusive Heil 'QUIET PHONE' Active Noise Canceling Technology. It's the first and only headphone to bring you active noise cancellation as well as a second Heil exclusive – switchable Speaker Phase Reversal that changes the audio from being heard "centered" in your head, to a spatially widened effect. This feature greatly reduces listening fatigue and in some conditions can reduce noise and enhance intelligibility. This has never been done before and you now have it all in the new Heil PRO-SET QUIET PHONE. The in-line battery box contains the phase cancellation, phase reversal components and a PTT control button. All PRO-SETS require an AD-1 adapter cable ($20.99 - specify radio).

PRO-SET Plus

PSQP-4 with HC-4 "DX" element and Leatherette Travel Bag C/O **$230.99**

PSQP-5 with HC-5 "Full Range" element and Travel Bag Closeout **$230.99**

PSQP-IC with 'IC' **Electret** element and cable **for Icom only**, and Leatherette Travel Bag ..... Closeout **$250.99**



Original PRO-SETS without QUIET PHONE feature

PRO-SET-4 with HC-4 "DX" element and Phase Reversal Switch .. **$140.99**

PRO-SET-5 with HC-5 "Full Range" element and Phase Switch..... **$140.99**

PRO-SET-IC with Heil 'IC' **Electret** element and Phase Reversal switch. **For Icom only, cable included** **$150.99**

PRO-SETS

BM-10 BoomSet

PRO-SET-PLUS Headset/Boom Microphone – Maximum comfort and noise seal is provided by full cover leatherette earpads with removable cotton covers. The cushioned inner headband is self-adjusting for a perfect fit, and the boom swings 180° for left or right side operation. Includes switchable, dual microphone elements; the Heil **HC-5** for normal operation, the **HC-4** for DX. The boom and top headband have rugged but flexible internal steel bands that can be adjusted as you wish. Great sound from frequency tailored speakers mounted in tuned cavities, and a phase reversal switch changes the sound field from being "centered" in your head, to a spatially widened effect. This feature greatly reduces listening fatigue and can reduce noise and enhance intelligibility. Requires AD-1 cord..... **$215.99**

PRO-SET-PLUS-IC same, but for **Icom**. Includes adapter cord..... **$235.99**

BOOMSETS

Headset/Boom Microphones – A lightweight, soft and comfortable boomset for prolonged use in contests, etc. The boom microphone is available with the Heil HC-5 "Full Range" or HC-4 DX element. The cord is wired with 1/4" stereo plug and 1/8" transmit audio plug and requires an AD-1 adapter cord.

BM-10-4 with the **HC-4** element **$110.99**

BM-10-5 with the **HC-5** element **$110.99**

BM-10-IC with Electret element for Icom, includes adapter cable... **$130.99**

TRAVELER

TRAVELER ADAPTERS

TRAVELER

HTSS Single-side Headset/Boom Microphone – Uses a high performance electret element and features Up/Down and PTT in-line switches and left or right side boom mount. A unique interface cable system utilizes various 3 ft. long patch cable to allow the TRAVELER to be used on over 100 different radios and many popular handhelds; see Price Guide for selection..... **$75.99**

HTDS Dual Headset/Boom Microphone – The same features of the single side Traveler but with two headphones; uses the same adapters **$95.99**

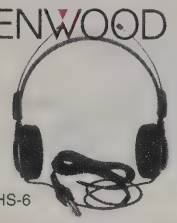
HQP QUIETPHONE

AD1 ADAPTERS

QUIETPHONE

HQP Active Noise Cancelling Headset – Incorporates Heil noise reduction technology. Uses soft leatherette cushions with adjustable headband to insure most comfortable listening for extended periods of time. A single "AA" cell for 30 hours providing clean high fidelity dual channel audio. The right angle 1/8 in. plug works with most CD or MP-3 players and plugs into the audio jack located in the arm rest of commercial airliners. A 1/4 in. stereo adapter is included for use with your ham equipment, folds flat for carrying..... **$99.99**

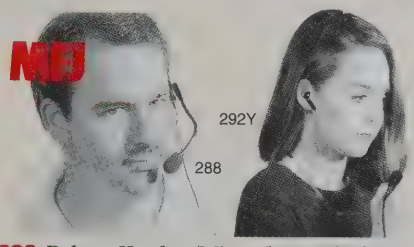
KENWOOD


HS-6

HS-5

HS-5 Deluxe Headphones – Specifically designed for communications. Provides a natural sound and pads eliminate pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Impedance: 8; Power: 200mW @ 1000 Hz max. input; Response: 150-4000 Hz; 13 oz..... **$79.99**

HS-6 Lightweight Headphones – Response: 100 to 10,000 Hz; Impedance: 12.5; 6 ft. straight cord with 1/4 in. phone plug; weighs 4 oz..... **$59.99**



288 Deluxe Headset/Microphone – Lightweight, comfortable for **Yaesu, Icom** and **Kenwood** units. Superb transmit audio, and earphone tonal quality. Foam covered microphone element is attached to headset with a flexible rubber boom allowing proper positioning. PTT switch on the 6 ft. cord, hold or attach to clothing..... (specify radio) Each **$24.99**

292Y Featherweight™ Earphone/Microphone Has an earbud earphone and a tiny thumb-sized microphone/PTT switch that's built right into the 4 ft. cord. For Icom Q7A, Yaesu FT-10R, FT-40R, FT-50R and VX series..... **$17.99**

392B Headphones – Perfect for Amateur and Shortwave listening. Superbly padded headband and ear cushions and only 8 oz. for comfort. High-performance drivers with full 20 – 20,000 Hz response provide enhanced sound and speech fidelity. Earphones have individual volume controls. Includes a 9 ft. cord with gold-plated plug and 1/4 in. plug adapter..... **$24.99**

HF-24RS
Scanner Headphones

Designed for racing fans. Listen to driver to pit conversations on a scanner with reduced noise. Snug fit, cushioned headband and comfort fit cushions allow hearing action over crowd and engine noise. Dual volume control; 3.5mm plug with a 10 ft. coiled cord **$19.99**

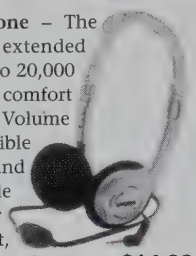
YAESU
YH-77STA Stereo Headphones – Impedance: 35 ohms; 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter; weighs 4.4 oz..... **$59.99**

KOSS HEADPHONES

QZ/5 Passive Noise Reduction – Isolates listener from noise sources like car and jet engines. Ideal for the race track and metal detection. Unique headstrap velcro design allows for secure fit and immobilization. 60Ω impedance; 102dB SPL/1mW sensitivity; 40 to 20,000 Hz sensitivity; Volume control and Stereo/Mono switch; Single entry, 8 ft. coiled cord with 3.5mm plug; 15 oz..... **$49.99**

QZ/50 Revolutionary Active Noise Reduction Reduces harmful & annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort for extended wearing. Dynamic element, 30-20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses one AAA battery (not included); 2.5 oz **$49.99**

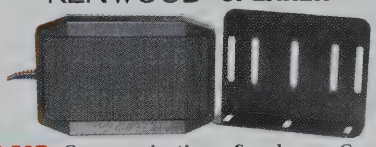
QZ/99 Passive Noise Reduction stereophone with Mono/Stereo Switch – Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4mm plugs; Sensitivity: 102dB SPL/1mW; Impedance: 60Ω; 15 oz **$59.99**



KTX/8 Portable Stereophone – The Dynamic elements give extended frequency response from 40 to 20,000 Hz. Foam ear cushions for comfort and open, hear-thru sound. Volume control on the cord. Collapsible headband design for storage and maximum portability. Reliable 3.5 mm "L" plug for improved durability. Straight, single entry 4 ft. connecting cord..... **$14.99**

Y-88 "Y" Cord – Delivers dual stereophone connection from a single sound source. "L" plug for improved reliability and durability..... **$4.99**

KENWOOD SPEAKER

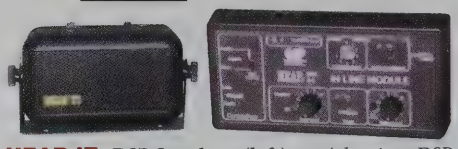


SP-50B Communications Speaker – Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated for 1.5W with a 300 to 4000Hz frequency response. Dim: 4.8"w x 3.2"h x 1.4"d; 10 oz..... **$55.99**

SGC ADSP² SPEAKER

70-14 – Delivers Adaptive DSP Noise Reduction for ANY transceiver. There are two pushbutton switches that toggle between 0, 13dB or 26dB of noise cancellation and 1 of 3 bandpass filters (100, 500 & 1500 Hz). It provides -45dB out of band reduction with one-click operation. There is a headphone jack for private listening. The black metal enclosure has an adjustable stand and cable for audio input (mono mini plug) and for 12 VDC @ 110-500mA. Dim: 3"h x 5"w x 2.5"d; 11 oz **$160.99**

GAP ADAPTIVE DSP TECHNOLOGY



HEAR IT DSP Speaker (left) – Adaptive DSP Technology adapts to changes in background or man-made noise levels and attenuates it up to –20dB, resulting in cleaner audio. If your radio already has DSP, it will provide additional improvement in readability. If it doesn't have DSP, there will be a huge improvement. Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plug headphones or another speaker into the audio bypass jack and retain the DSP noise reduction feature. A built-in amplifier provides 2.5W of audio power. Requires 12–28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plugs. Dim: 4.5"w x 2.75"h x 2.25"d **$169.99**

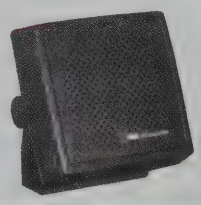
IN LINE MODULE DSP Module (right) Provides the same DSP features as the *'Hear it'* speaker above, but without the speaker unit. Includes a built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input and output jacks and headphone jack. Requires 12-24VDC @ 500mA. Includes a 3.5mm audio cable and fused power leads. Dim: 6.75"w x 3.35"h x 1.4"d; 1 lb..... **$219.99**

West Mountain Radio SPEAKERS

CLR/SPKR ClearSpeech® DSP Noise Reduction Speaker (left) – A 4 in. speaker with an Adaptive DSP Noise Reduction circuit and 2W audio amplifier. The DSP passes Voice and CW while hum, hiss, ignition and power line noise, static crashes and heterodynes are removed or greatly attenuated. Selectable Out, Low, Med., High and Max. noise reduction. Includes tilt mounting bracket, 6 ft. 12V DC power cable with Powerpole® connectors and 6-ft. audio cable with 1/8-in. mono plug. Rear jack for an external speaker connection; On-Off switch; LED power and input level indicators.
Dim: 4.25"h x 5.25"w x 2.5"d..... **$219.99**

CLR/DSP ClearSpeech® DSP Noise Reduction Without speaker; 4 watt output **$219.99**

CS-1 Computer Speaker System (right) – An RF Proof amplified stereo speaker system, designed for the computer in or near your ham station. Provides interference-free operation in close range of any radio transmitter in the 1–1000 MHz frequency range. Stereo, high-fidelity response for voice or music. Solid, resonance free, wooden cabinet. Complete with audio cables and wall power supply. Input: stereo line level 1/8" mini jack; Output: nominal 3W per channel. Dim: 8.375"h x 4.125"w x 5.25"d (each speaker), 72 oz. (complete).....**$69.99**



MIDLAND

21-406 High Performance Mobile speaker – Clear, crisp sound. 4Ω, 15W capacity. Dim: 5.5"w x 5.5"h. Swivel base, audio cord with 3.5mm plug..... **$22.99**

MFJ SPEAKERS

281 Communications Speaker A rugged 3 inch mylar cone speaker mounted in an effective baffle. Improves speech intelligibility in the 600 to 4000Hz range while reducing undesirable noise, static and hum. Includes adjustable mounting bracket. Dim: 3.75"h x 3"w x 2.25"d **$12.99**

382 Deluxe Amplified Speaker Excellent for QRP'ers, base station HTs or rigs that can benefit rom a higher volume level. A quality 3 inch speaker in an all metal cabinet with rubber feet and vinyl clad cover. Uses a 9V battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 3.5"h x 1.75"w x 4.5"d **$39.99**

DSP AUDIO FILTER

784B Tunable DSP Audio Filter – Improves reception by simultaneously eliminating heterodynes and reducing noise and interference in nearly any mode. Provides 5 tunable DSP filters, plus 10 programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction automatically handles varying noise levels to enhance intelligibility and reduce fatigue. Highpass, lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Uses 12 VDC or 110V with the MFJ-1312D. Dim: 9.5"w x 2.5"h x 6"d..... **$259.99**

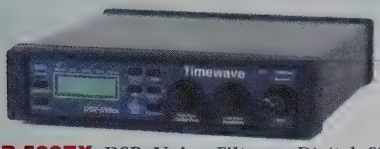
INTELLIGIBILITY ENHANCER

616 Speech Intelligibility Enhancer™ – Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand SSB, FM, AM, CW & QSOs by adjusting response levels to match hearing response for best clarity, then equalizing perceived loudness to each ear. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable transceiver inputs; bypass switch. Use with rig or PA. Dim: 10"w x 2.5"h x 6"d; requires 12 VDC..... **$189.99**

MICROPHONE SWITCH

1263 Microphone Control Center – Eliminates swapping mic connectors. Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6"w x 1.5"h x 5"d **$119.99**

TIMEWAVE TECHNOLOGY INC.
DSP NOISE REDUCTION

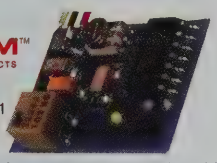


DSP-599ZX DSP Noise Filter – Digital Signal Processing provides superior reduction of QRM and QRN. Analyzes signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in to fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz-600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER. Test instrument mode provides an audio sine wave generator, audio millivoltmeter and two-tone audio generator **$436.99**

ANC-4 Antenna Noise Canceller and Diversity Combiner – Effective with any transceiver (up to 250W) or receiver from 500 kHz– 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver AGC. Connects between your antenna and radio with a second antenna acting as a noise pickup. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. It also can operate as an active antenna using a the noise antenna and noise gain control. And, it can be used as a diversity combiner enhance weak signals or null interfering signals. 11–16V DC @ 300 ma. Dim: 1.7"h x 6"w x 4.3"d; 2 lbs **$209.99**

NORCOMM™ TONE SIGNALLING PRODUCTS
TONE SIGNALLING

NC-101



NC-101 Encoder – Micro-miniature CTCSS encoder, field tunable to any CTCSS tone frequency between 67 Hz and 254 Hz. Uses 5 to 15VDC. Dim: 0.60"w x 0.80"l x 0.15"h.....**$21.99**

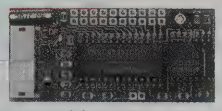
NC-104 Programmable Encoder – Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones plus 69.37, 97.4 and 205.5 Hz. Uses 7 to 24VDC. Dim: 0.625"w x 0.80"l x 0.170"d.....**$26.99**

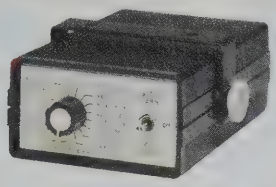
NC-106 Programmable CTCSS Encoder and Decoder – A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the CTCSS tones + 97.4 Hz. 6-24VDC. Dim: 0.85"w x 1.35"l x 0.28"h.....**$67.99**

NC-401 Touch-Tone® Decoder – Now includes remote programming as standard! A micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features E²PROM memory for storage of both primary and secondary codes, input/output functions, deadbeat disable and user outputs, plus default reset. Programs with a conventional DTMF encoder. 6-24VDC. Dim: 0.80" x 1.37" x 0.23" **$76.99**

COMMUNICATIONS SPECIALISTS, INC.
TONE ENCODERS & DECODERS

Actual Size

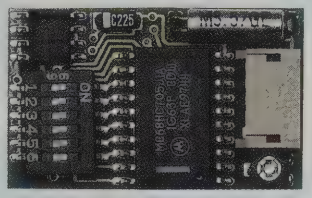




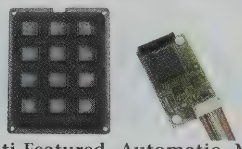
SS-64 Programmable CTCSS Encoder – Super small for easy installation in most handhelds. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 1.08" x 0.66" x 0.21"; 6–28 VDC..... **$28.99**

TE-32 Multi-tone Encoder – Provides 32 tones via direct access from the dial rotary switch to all EIA CTCSS tones from 67 to 203.5 Hz, allowing access to multiple repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7"; 6-30 VDC... **$49.99**

Smaller than Actual Size



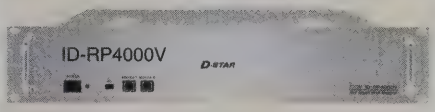
TS-64DS Field programmable CTCSS Encoder /Decoder – DIP switches select 64 tones 33 to 254.1 Hz. Dim: 2" x 1.25" x 0.3"; 6–28 VDC..... **$57.99**



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20VDC. Dim: 1.85" x 1.12" x 0.35" **$69.99**

Wiring diagrams and lists of Fax-on Demand documents can be obtained from http://www.com-spec.com/index1.htm

ICOM D-STAR REPEATERS & CONTROLLER



D-STAR repeaters can be tied together to make up the repeater system you want using either Internet or microwave links.

The D-STAR voice and low-speed data signal offers a significant improvement in spectrum efficiency, requiring only a 6 kHz channel instead of the 20, 25, or even 30 kHz of analog wide-band FM. D-STAR repeaters can be interleaved between existing channels or multiple repeaters deployed in the spectrum of only one analog FM repeater.

Single Modules:

ID-RP2C - Repeater Controller (control up to 4 modules) **$1459.99**

ID-RP2D - 1.2 GHz Data module; RX & TX 1240-1300 MHZ; Output 9-12W (high)/0.5-1.2W (low); Communication speed: 128 kbps..... **$1112.99**

ID-RP2V - 1.2 GHz Voice Module; RX & TX 1240-1300 MHZ; Output 6-12W (high)/0.5-1.2W (low); Communication speed: 4.8 kbps .. **$1559.99**

ID-RP2000V - 2M Voice Module; RX & TX 144-148 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) **$1399.99**

ID-RP4000V - 440 MHz Voice Module; 440-450 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) **$1399.99**

ID-RP2L06 - 10 GHz Backbone Module; Microwave link repeater provides linking with another repeater site; RX & TX 10-10.175 GHz; Output 2W; TX speed: 10 Mbps. In order to create a link you must have one ID-RP2L06 at site "A" and one ID-RP2L07 at site "B"... **$4999.99**

ID-RP2L07 ..... **$4999.99**

Packages:

ID-RP2C/2D - ID-RP2C & ID-RP2D **$2297.99**

ID-RP2C/2V - ID-RP2C & ID-RP2V **$2969.99**

ID-RP2D/V
ID-RP2C, ID-RP2D & ID-RP2V **$3999.99**

YAESU
50W 2M FM REPEATER

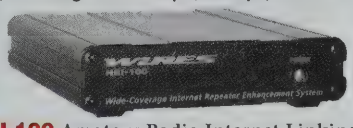
VXR-7000VA 50W 2M FM Desktop Repeater Includes a long list of built in features that set the standard for a mid-power continuous duty repeater application. Attractive housing and user-friendly controls. In the most demanding environments, the VXR-7000VA will provide years of reliable service. 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, auto. DC back-up. Dim: 4.5"h x 12.8"w x 15.4"d; 22 lbs **$1269.99**

** Dealer programmed feature*

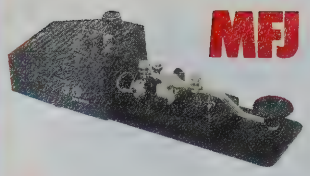
WIRES™ INTERNET LINKING

WIRES™ (Wide-Coverage Internet Repeater Enhancement System) is a comprehensive and easy-to-use system for linking repeaters and/or home stations together, using Internet voice technology. You can talk world-wide using your HT or mobile radio via a WIRES-equipped node.

The HRI-100 Interface is the electronic part of a WIRES™ node, connects to a Windows based computer using a high-speed (DSL/ISDN/T1, etc.) or a regular dial-up (56 kbps) connection.



HRI-100 Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRES™ II user/server agreement **$149.99**



MFJ CODE PRACTICE READERS KEYERS

557 Code Oscillator with Key – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D ($15.99). Dim: 8.5"d x 2.25"h x 3.75"w.... **$39.99**

554 Code Practice Oscillator – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Metal enclosure. Dim: 4.25" x 1.5"h x 5"d **$99.99**

550 Hand Key..... **$14.99**

414 Professional Classroom Tutor – Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D ($15.99). Dim: 8.5"w x 2.25"h x 6"d..... **$209.99**

452 Super CW Keyboard – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5–100WPM; Weight: 5–95%; Sidetone: 300–3000 Hz sidetone; Serial Numbers (0–9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC..... **$149.99**

452X – Same as 452 without keyboard . **$119.99**

462B MultiReader™ – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. An 8K memory for storage and convenient printer port. Requires 12VDC. Dim: 6.25"w x 2.5"h x 6.25"d..... **$199.99**

461 Pocket-Size Morse Code Reader™ No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. Uses 9V battery (not included). Dim: 2.25"h x 3.25"w x 1"d, 5.5 oz..... **$89.99**

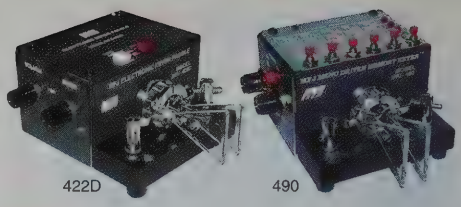
5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack..... **$7.99**

464 CW Reader With Built-In Keyer – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25"w x 2.5"h x 6.25"d..... **$189.99**

407D Deluxe Electronic Keyer – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7"w x 2"h x 6"d.... **$79.99**

401D Econo Keyer – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4"w x 1.75"h x 3.75"d ... **$69.99**

434B Contest Voice Keyer™ – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like *'CQ Contest this is K9KHW, "You're 59"..."Grid is EN63"* and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3–500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head ($34.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, ($15.99). Dim: 6.5"w x 2.5"h x 6.5"d **$189.99**

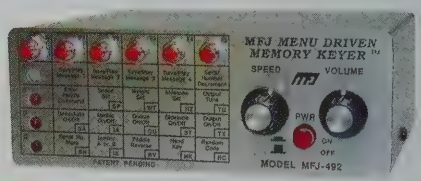


422D Keyer-Paddle Combo – Consists of a unique MFJ/Curtis keyer™ in a compact package installed on a Bencher iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories, speaker, sidetone and semi-auto/tune modes. Keys grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D ($15.99).
Dim: 4"w x 2.25"h x 4.25"d..... **$189.99**

422DX Keyer Only – Install on your Bencher or MFJ 564 Iambic paddle **$99.99**

490 Menu Driven Memory Keyer and Bencher Paddle Combination – A compact feature-rich keyer mounted on a Bencher iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic or bug or handkey modes. Select iambic A/B, Morse trainer, contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99). Dim: 5"w x 3"h x 5.5"d **$209.99**

490X Menu/Memory Keyer Only – Same as MFJ-490 but without Bencher paddle..... **$119.99**



492 Menu Driven Memory Keyer – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99). Dim: 6.5" x 2.5" x 6.25" ... **$119.99**

495 Millennium CW Keyer – A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99).
Dim: 6.25"w x 2.5"l x 6.25"d..... **$179.99**

KENT Keys

Produced by R.A. Kent Engineers for OUTbacker. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.

VK-1 The "Vail Lever Correspondent" Key A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized – a collectable! **$179.99**

SK-1 – Straight Morse Key..... **$129.99**

SP-1 – Single Paddle Morse Key..... **$139.99**

TP-1 – Dual Paddle Iambic Key..... **$149.99**

UM Unified Microsystems

XT-4 CW Memory Keyer – Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery..... **$69.99**

KC-4 – CW Cable set for XT-4 & VK-64. **$9.99**

VK-64 Combination CW/Voice Keyer – Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply **$229.99**

VKC-8 Shielded Audio Cable – A semi-kit wired and tested except for microphone and transmitter connectors (8-pin)..... **$24.99**

The Better RF Company

I-MATE Accessory for ICOM PRO Series Provides external selection of pre-recorded voice and keyed messages for the 756PROII & III and keyed CW messages for the 746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Alternate audio input for second microphone. Plugs into transceiver microphone jack and powers from the available voltage..... **$74.99**

AMECO

Code practice oscillator and Morse code monitor

Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.

OCM-2W Wired **$29.99** • **OCM-2K** Kit **$19.99**

Morse Code Keys

K-1 Low-cost General Purpose Key – Phenolic base, adjustable tension, contact spacing **$10.95**

K-4R Deluxe High Quality Key – Polished brass plated zinc base, shorting bar **$17.95**

BENCHER, INC.

IAMBIC & SINGLE LEVER PADDLES

Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contract points and heavy non-skid base.

IAMBIC

BY-1 – Black base/Chrome components **$114.99**

BY-2 – Chrome base/components **$139.99**

BY-4 – Black base/Gold components .. **$179.99**

SINGLE LEVER

ST-1 – Black base/Chrome components **$119.99**

ST-2 – Chrome base & components ... **$139.99**

RJ SERIES KEYS

Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.

RJ-1 – Black base/Chrome components.. **$110.99**

RJ-2 – Chrome Base & components .. **$135.99**

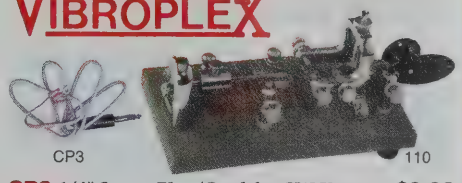
IDIOM Press

LOGIKEY

K-5 Fully Iambic Keyer – An improvement on the world-famous LOGIKEY K-3. More user friendly and an unmatched feature list, with the best operator interface available. New features include greater protection against voltage spikes, lightning, etc. All stainless hardware, internal volume control, updated enclosure design. Three AAA cells run the K5 for months, or it also accepts 9 to 12V DC. Works perfectly with single-lever, non-iambic paddles. Dim: 4.25"w x 2.25"h x 4.75"d. The K5 otherwise has too many features to list, but you'll find full details at http://www.idiompress.com..... **$149.99**

HK-3 Hook-up kit for the K3 – Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V **$10.99**

VIBROPLEX®



CP3 1/4" Stereo Plug/Cord for CW Keyers .. **$9.99**

The Original Bug from 1904 for 20-50+ WPM.

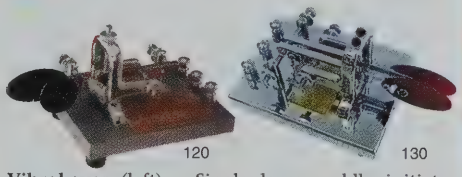
110 Standard – Painted base/chrome top **$179.99**

195 Blue Racer 2000 Standard – Blue base with chrome top and red finger pieces..... **$199.99**

105 Deluxe – Polished chrome base and top parts with fine jewel movements..... **$209.99**

100 Presentation – Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements **$269.99**

090 Gold – Plated base/chrome top..... **$299.99**



Vibrokeyer (left) – Single lever paddle initiates automatic dots and dashes of an electronic keyer.

120 Standard – Black base, chrome parts . **$159.99**

115 Deluxe – Chrome base and top parts with jeweled movements..... **$199.99**

113 Gold – 24K gold-plated base and chrome top parts with jeweled movements..... **$279.99**

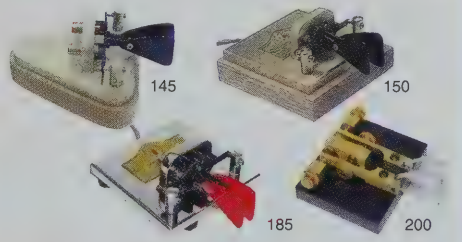
Iambic (right) – Allows automatic dot/dash insertion.

135 Standard **$159.99**

130 Deluxe..... **$199.99**

125 Presentation – 24K gold-plated top plate, chrome base with jeweled movements..... **$269.99**

123 Gold..... **$279.99**



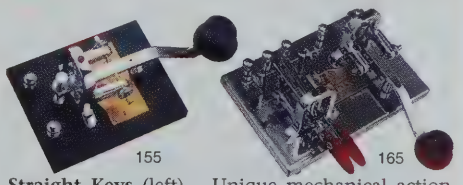
145 Triangle Brass Racer Iambic – Solid brass paddle & polished hardwood base..... **$149.99**

150 Square Brass Racer – Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs..... **$149.99**

190 Square Racer Standard – Black base with chrome top parts, cord included..... **$129.99**

185 Square Racer Deluxe – Chrome base with chrome top parts, cord included..... **$149.99**

200 Code Warrior Jr – Magnetic Paddle. **$109.99**



Straight Keys (left) – Unique mechanical action, unlike any straight key ever manufactured.

155 Standard **$159.99**

160 Deluxe..... **$199.99**

153 Gold..... **$279.99**

Deluxe Double Keys (right) – Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.

165 DLX straight key/Iambic..... **$349.99**

170 DLX straight key/Vibrokeyer..... **$349.99**

West Mountain Radio

RIGblaster

The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, comes with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Four models to choose from for your operating needs. Use with any USB or RS-232 computer and over 2000 different radios.

RB/PR/CUSB RIGblaster Pro USB – The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with computer and a radio. For 8-pin and RJ-45 radios as supplied.... **$279.99**

RB/PL/CUSB RIGblaster PLUS USB – Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ-45 radios as supplied... **$149.99**

RB/NO/CUSB RIGblaster Nomic USB – Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your microphone whenever you wish to use sound card software. For 8-pin and RJ-45 radios as supplied..... **$59.99**

RB/PP RIGblaster Plug & Play – Compatible with over 25 modes and all ham radio sound card programs. Connects through radio's DATA jack and computer's USB port and sound input. A built-in USB to serial converter provides T/R switching, CW keying and CAT/CI-V rig control. Complete with USB cable, computer audio cable & a CD ROM. The plug & play has fully isolated audio and keying, runs from USB power. A special feature for Echolink provides carrier detect on CTS, DSR and DCD. Some radios will require an additional Data Jack Adapter cable; does not work with FT-847 or FT-1000D **$109.99**

CIV/CBL Rig Control Cable for CI-V Radios..**$8.99**

Auxiliary Jack Adapters:

RPA/I13D 13-pin DIN, for Icom..... **$9.99**
RPA/I8D 8-pin DIN, for Icom..... **$9.99**
RPA/K13D 13-pin DIN, for Kenwood..... **$9.99**

For Rig Compatibility information see the chart at:
www.aesham.com/rig.shtml

MFJ Computer SOUND CARD to RIG Interfaces

Connect the Sound Card in your Computer to your Rig and operate the Digital Modes: CW, RTTY, SSTV, PSK-31, packet, APRS, AMTOR, High Speed Meteor Scatter, others

MFJ-1279

1275 Sound Card Interface – Connect between a transceiver and computer and operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a CD with a collection popular digital mode software. Use model **1275** for 8-pin round microphone plug or model **1275M** for 8-pin modular plug (RJ-45) ..... each **$109.99**

1279 Super Sound Card Interface – Has all of the features of the MFJ-1275 above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Plug and play, includes CD with a selection of digital mode software, RS-232 and audio cables, and AC power supply. Use model **1279** for 8-pin round microphone plug or model **1279M** for 8-pin modular (RJ-45) microphone plug..... each **$139.99**

1273B Sound Card Interface – A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or switch). Includes RS-232, audio and mic cables and software. No external power needed. Use model **1273B** for 8-pin round microphone plug, or model **1273BM** for 8-pin modular (RJ-45) microphone plug. each **$59.99**

1272B TNC/Microphone Switch – Switch between your TNC and 8-pin microphone by pushing a button..... Closeout **$49.99**
1272M – For microphones with 8-pin modular (RJ-45) plug. C/O **$39.99**

MFJ 16-Element Wi-Fi Yagi

1800 – Covers 2.4 GHz with 15dBi gain to greatly extend the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes the possibility of interfering signals. Works with any 802.11b/g or 2.4 GHz device. Unique mount has a built-in standard N-type female connector and screw mount for standard tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mounting. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 inches, Weight: only 2.9 oz..... **$29.99**

5606SR – 6 ft. cable with N type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector..... **$24.99**

AOR Digital Voice Interfaces

ARD-9800 Digital Voice and Image Interface
Use your conventional SSB transceiver for Digital Voice, Data (3600 bps) and Images while maintaining analog capabilities. No modifications, simply plug it in to the microphone jack, operates with transceiver in SSB mode. An automatic voice signal detector recognizes received signal as analog or digital, automatically switching to the appropriate mode. Uses Open Digital Protocol which is permitted on US Ham bands. Built-in speaker and video output connector which allows external TV monitor viewing. Includes PTT hand microphone, cables and manual. Requires 10-16VDC. Dim: 3.94"w x 1.26"h x 6.14"d **$529.99**

ARD-9000 MK 2 Digital SSB Interface – Like the ARD-9800 it works with any existing SSB transceiver without modifications to operate digitally where background noise and static are virtually non-existent and SSB audio is near FM quality. It's Digital Voice only and does not include Data and Images like the ARD-9800; it's also less expensive. However, the ARD-9000 MK 2 and ARD-9800 are compatible with each other and both automatically detect digital signals and decode them while allowing analog signals to pass through. Easily shifts between digital and analog operation. Comes with a speaker-microphone, DC power cable, magnetic mount base and 8-pin microphone plug. It's ready to make the simple connection to your transceiver's microphone input and speaker output. Dim: 2.8"w x 1.3"h x 3.9"d..... **$359.99**

MULTI-MODE DATA CONTROLLERS

Kantronics

KPC-3 Plus/128 – 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM..... **$218.99**

9612 Plus/128 – 1200 bps port and second port of 4800 – 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability..... **$410.99**

KAM XL Multi-Mode DSP Controller Kantronics third generation multimode TNC, a state-of-the-art design giving operations on HF, VHF, and UHF, while supporting DSP modems and popular new modes of operation; Packet 300/1200 bps; G-TOR; PACTOR I; AMTOR ARQ (FEC, SELFEC, CCIR 476 and 625); PSK31; RTTY; NAVTEX/AMTEX; ASCII; WEFAX; CW; Dual-port mailbox; Remote SYSOP access; GPS NMEA-0183 compatible; Kantronics Host Mode and KISS..... **$425.99**

WIRELESS MODEMS

MT-1200 Mobile Tracker – A simple and affordable wireless modem able to communicate in a variety of formats including TCP/IP, LSUB, TUPs, AX.25, KISS, XKISS, POLL, LSUB, TUP and PING operating modes. Seamless and transparent radio link substitute. May be used with an external NMEA GPS receiver. 512K memory standard.
Dim: 0.95"h x 4.9"w x 3.0"d; 4.8 oz.....**$239.99**

MT-1200G Mobile Tracker – includes an embedded GPS with active magnetic mount antenna for GPS position transmitting and tracking... **$299.99**

12VDCAPAPTOR 120VAC Adapter – Supplies 12VDC @ 300 mA for Kantronics units..... **$19.99**

SOFTWARE

PacTerm for Windows Host Mode Terminal software – Works under Windows 95, 98, Me, NT, 2000, XP and Vista. Takes advantage of the true multitasking capabilities of Windows and uses standard Windows commands for ease of use. From CW to HF packet, from single to dual port TNCs, it's now more fun to use the digital modes. Supports KPCs (1, 2, 3, 3P, 4, 2400, 9612, 9612P); KAM (E, PLUS, 98, XL) & DATA ENGINE **$99.99**

PKTerm for Windows Host Mode Terminal Software – For Timewave/AEA TNCs ... **$99.99**

More details on Capabilities at:
http://www.cssincorp.com/prod-pacterm.htm

TIMEWAVE TECHNOLOGY INC.

PK-232/PSK Multimode Data Controller – The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25"d x 2.5"h; 3 lbs..... **$531.99**

PK-232/USB – Same as above except the RS-232 port is replaced by a USB port **$549.99**

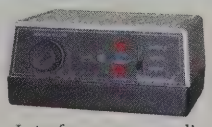
PACKET TNC

PK-96/100K 9600/1200 packet TNC – 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; Requires 12V DC. 128K RAM. Dim: 6.25"w x 7.5"d x 1.375"h; 1.25 lbs.. **$219.99**

AC-1 120VAC Adapter – Supplies 12VDC @ 600 mA for PK-232PSK/USB data controllers.... **$15.99**

AC-5 120V Desktop Power Supply – Supplies 13.8VDC @ 1.7 Amps for the DSP-599ZX, PK-232/DSP, DSP-2232, DSP-1232, DSP-232, PK-900, PK-232 PSK/USB, PK-96/100K **$22.99**

ICC Automatic Tape Recorder Activator



NITELOGGER II – Interfaces your radio or scanner to a tape recorder. A voice activated circuit starts the recorder only when received audio is present (for the duration of the signal), compressing hours of monitoring time on a single tape without long delays between transmissions. A built-in speaker allows monitoring when the Nitelogger is in use. Plug and play with supplied cables for radio's external speaker jack and recorder remote and microphone inputs. Designed for 12V power, it can be battery operated for mobile, portable or discreet installations; an AC adapter is included for 110V operation. Dim: 4.5"w x 3.25"h is x 2"d, 1 lb..... **$69.99**

ORDER ON-LINE!

W4RT YAESU ACCESSORIES

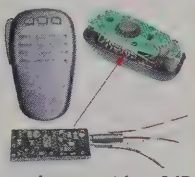
One-Plug Filters

Direct plug-in W4RT-built Collins mechanical Filters for the Yaesu FT-817(ND), 857(D) and 897(D) radios. Improve your CW/PSK experience with a 300 Hz (8-pole) or 500 Hz (7-pole) filter which are essentially identical to the Yaesu YF-122C and YF-122CN. The 300-Hz is often preferred by CW & PSK contesters.

The 2.3 kHz SSB filter contains a 10-pole Collins Mechanical Filter identical to the Yaesu YF-122S. "Hearing" is improved and tests have demonstrated that a 2-dB improvement in talk power can be realized by using this filter rather than the stock MuRata ceramic filter. All filters are properly terminated and easy to install. Just remove the cover, plug-in, and set the radio's menu as explained in the respective manuals.

OPF-YCW300 300 Hz filter.... **$114.99**
OPF-CW 500 Hz filter..... **$109.99**
OPF-SSB 2.3 kHz filter **$129.99**

Speech Compressor
OBP-STD
One BIG Punch



Installs inside the MH-31 microphone used with the Yaesu FT-817, 847, 857 & 897 series transceivers. An AF-based compressor configured to provide a 5dB increase in talk power with good audio quality. Requires no additional power, and turns On/Off with the MH-31's Tone switch..... **$49.99**

OBP-UNIV – The **One BIG Punch** for microphones having 7-12V DC available, like the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios..... **$49.99**

MFJ DX BEACON MONITOR

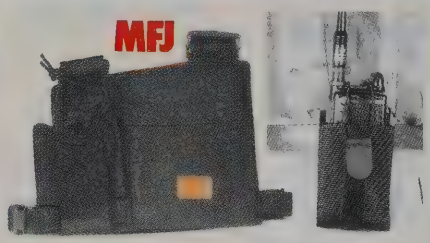
890 – Checks worldwide band conditions in just three minutes. It's a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the worldwide DX beacon activation sequence. LED indicators positioned across a world map show which of the 18 world beacons is active at any given time. Storing the beacon frequencies (14.100, 18.110, 21.150, 24.930 and 28.200 MHz) in your receiver memory allows quick band switching as one listens for beacon transmissions. When a beacon is heard (on your station receiver) on any of the beacon frequencies, that band is open to the location as indicated by the corresponding LED. No receiver connection required. 12VDC or 110VAC with the MFJ-1312D. Dim: 6.7"w x 5.2"h x 3"d..... **$119.99**

PHONE PATCH

624E Deluxe Hybrid Phone Patch – Use with any rig with 8-pin or modular mic connector. Operate VOX or PTT. Built-in VU meter monitors phone line levels. Null depth control adjusts for maximum receiver and transmitter isolation. Separate TX and RX gain controls. RJ-11 jacks for speaker, audio in and audio out. Use 12 VDC, 9V battery or 110 VAC with MFJ-1312D Dim: 8"w x 2"h x 6"d... **$149.99**

Communications Outfitters

EXP-1 Expedition Pack – Designed for the Yaesu FT-817. Allows backpack style or table top operation with complete access to all controls, front and rear. A zippered pouch on both sides securely holds most any antenna in the collapsed position for travel. Radio compartment is divided so the top section will hold the FT-817, and the lower compartment can be used for an amplifier, tuner, accessories, or another radio. Made of high quality, durable nylon with plastic panels for rigidity and water-resistant for added protection.
Dim: 12"w x 4"h x 15"d..... **$99.99**



18 HamGear™ Tactical Chest Harness (left)
Perfect for rugged use, emergency radio operators and on-the-go hams. Use it for portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap, this interwoven fabric is water resistant and will cushion blows and scrapes. Adjustable shoulder straps. Harness is firmly held in place by stretchable inter-woven elastic belt with snap hook and adjustable sliders supported by nylon straps. An additional 5 x 7 inch cargo pocket holds another radio, accessories, maps, etc..... **$29.99**

15 HamGear™ Belt Radio Holder (right)
A durable twill burlap pocket with elastic cord and velcro closure that easily stretches over any HT. Attached 2 x 3 inch belt loop..... **$14.99**

Q-VIEW QSL Card Holders

Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards .... **ART QSLCARDHOLDE** (3 pack) **$18.99**

LM-100 Vent mount for Remote Heads – Has a 4-hole AMPS pattern that attaches to ALINCO, ICOM, KENWOOD and YAESU remote head brackets. Swivels 360° for optimal viewing and tightens easily with a tightening ring. Installs and removes in seconds. Fits most horizontal vent louvres but not large circular vents like those found in Mustangs and PT Cruiser. **$14.99**

LM-300 Seat bolt Mount – Easy to install, without drilling. Simply loosen a passenger-side seat track bolt, and slide the mount bracket under it. Has a 15 inch gooseneck swivel mounting pedestal that allows positioning for optimal viewing. Comes with a 4-hole AMPS plate that lines up with YAESU and most ALINCO remote-heads. ICOM or KENWOOD heads require drilling two additional holes. Plastic tubing on pedestal hides wires **$24.99**

LM-400EXP Window Mate Express – An Express Mount attached to an integrated swivel and can be rotated 360 degrees. Mount any electronic device using a button, leather case or OEM clip. Turning the mounting platform upside down reveals a slot for a belt clip. Includes an adhesive disc to mount on any flat surface..... **$19.99**

LM-500H Low-Vibration Windshield or Dash/Console Mount – Ideal for heavier control heads and GPS units, your mobile rig, XM, Sirius satellite receivers, etc. Two directional adjusting knobs, unique telescoping shaft and tilt swivel allow adjustments for optimal viewing. Includes a circular adhesive disc which easily converts the super strong windshield suction cup on the pedestal into a reliable console mount **$29.99**

LM-600 LoBoy – Low Profile, accommodates a variety of devices including hands-free phone cradles, iPod holders, XM satellite radios, GPS units and Ham Radio. The integrated swivel allows a 30° of adjustment in any direction, securely holding its position without tightening or locking. Attaches to any vehicle without hardware using a strong adhesive mounting pad. Has the AMPS hole pattern and includes a 90° "L" bracket that allows either horizontal or vertical positioning..... **$14.99**

LM-700 Ultimount – Great for handheld devices like a cell phone, Garmin GPS, MP3 player or an XM radio. Position your handheld electronics right where you want them without interfering with vehicle's air vents, controls or air bag. Includes a belt clip and two adhesive-backed buttons with a prep kit to ensure maximum adhesion **$24.99**

LM-800EXP Cup Holder Mount – Your vehicle's cupholder is a convenient place to mount your HT or remote radio head. An adjustment wheel on the top of the base allows fitting to cup holders from 2.5 to 3.25 inches. The express mount can accommodate button type mounts like the one found on the Yaesu VX-2R or a belt clip. To mount a remote control head (like an IC-706), simply remove the express mount to reveal a plate with a 4-hole AMPS pattern. Quick release and a tilt swivel knob adjusts the viewing angle. The mount is 5.5 in. tall..... **$19.99**

LM-900BG The BUG – For securing small, narrow profile radio control heads for XM and Sirius radios, VHF radios, HAM radios and more. Features two arms, which rotate forward and backwards as well as pivot in and out which allows mounting to different control heads and hole patterns. Adjusts with a single twist of a thumbscrew. Mounts in a variety of locations, even in a hanging position near the rear view mirror. Installs with a flexible adhesive backed mounting pad. Radio head attaches with screws or adhesive pad **$19.99**

LM-1000EXP Motorcycle/Bike Mount – Installs without tools. Swivel tightening dual T-head. Includes rubber inserts to accommodate different handlebar diameters..... **$19.99**

LM-1200 Vent Mount – Attaches to vent with button tabs. Use for microphone hang up or holding mobile electronics. Also includes an adhesive button mount for mic **$7.99**

ADHESIVEKIT1 Replacement Adhesive Pad
For Lowboy and BUG mounts..... **$5.99**

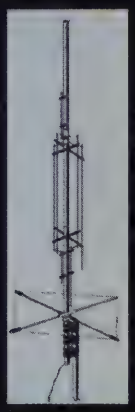
ADHESIVEKIT2 Replacement Adhesive Pad
For LM400/500 series mounts **$4.99**

THE PERFECT ANTENNA

For almost 2 decades GAP has stated there is no perfect antenna. No singular antenna can do it all. That is why we designed a family of antennas that utilize the patented (#5,592,183), GAP Technology, to give you options. Within this family is the antenna right for you. If deed restrictions or visibility are a problem, take a look at the Eagle DX. If you are looking for a simple general coverage antenna with capture area, consider the Challenger DX. What about a low band antenna with great 40m and 80m performance? The Voyager DX is worth your attention. If you seek the most popular multiband antenna, then the Titan DX will end your search.

The GAP Technology eliminates traps, electromechanical devices and coils, which can increase loss and decrease reliability. Simplicity in design results in a very user friendly assembly process. Slide one tube over another until the big hole lines up with the little and insert a screw. A GAP is pretuned, will handle 1500W PEP, and has a VSWR < 2:1 across the entire band.*

CATCH THE WAVE



TITAN DX

10m, 12m, 15m, 17m, 20m, 30m, 40m, & 80m

25' tall 25 lbs

Mounts on 1-1/4" OD mast

No radials required.

*VSWR under 2:1 on 80m 100 KHz

CHALLENGER DX

2m, 6m, 10m, 12m, 15m, 20m, 40m, & 80m

31.5' tall 21 lbs

Drop in ground mount supplied.

3 counterpoises required 25' long.

*VSWR under 2:1 on 80m 130 KHz

VOYAGER DX

20m, 40m, 80m, & 160m

45' tall 39 lbs

Supllied with hinged ground mount.

3 counterpoises required 57' long.

*VSWR under 2:1 on 160m 90 KHz

EAGLE DX

10m, 12m, 15m, 17m, 20m & 40m

21' tall 19 lbs

Mounts on 1-1/4" OD mast

No radials required.

*40m limited to 400 watts

QUICK TILT

The easy way to raise and lower your antenna, support mast or flagpole. Works with most antennas.

GROUND MOUNT

Accomdates 1 1/4" 2" OD Mast

LADDER MOUNT

STAINLESS STEEL & ALUMINUM CONSTRUCTION

ANTENNA ACCESSORIES FOR ALL

GUY KITS

Insure your antenna or support mast against the elements with a Guy Kit.

STAINLESS STEEL & ALUMINUM CLAMP

3/32" UV Protected Black Double Braided Polyester Rope

NOISE CANCELLATION EQUIPMENT

PROVIDES 9–35dB DSP RECEIVE NOISE CANCELLATION

HEAR IT IN-LINE MODULE

Put a HEAR IT in-line Module between your rig and speaker and KILL noise.

- 8 User Selectable levels of DSP noise cancellation
- Audio & Line level inputs and outputs
- 12-24 VDC • 2.5W maximum audio output
- On/Off audio bypass switch
- Headphone jack
- Dim: 6.75"w x 3.35"h x1.4"d

HEAR IT SPEAKER

Base or Mobile – the HEAR IT will dramatically improve your audio.

- 8 user selectable levels of DSP noise cancellation
- 12-24 VDC power requirement
- 2.5W maximum audio output
- Input sensitivity control
- Headphone jack
- On/Off audio bypass switch
- 6 ft. audio lead with 3.5mm plug
- Dim: 4.5"w x 2.75"h x 2.25"d

FRONT VIEW

REAR VIEW

For Prices see GAP on Page 9 in the PRICE GUIDE

Life is a JOURNEY. Enjoy the ride!

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.

For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN	
Maldol EM-5M	SO-239 / PL-259
Footprint:	1.1"x .75"
Max Antenna:	40"

For Medium Size Antennas

MODEL / ANT CONN / COAX CONN	
COMET CP-5M	SO-239 / PL-259
COMET CP-5NMO	NMO / PL-259
Footprint:	3.4" x 1.25"
Max Antenna:	60"

For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN	
COMET HD-5M	SO-239 / PL-259
COMET HD- 5 3/8-24	3/8-24 / PL-259
Footprint:	3.75" x 1.1"
Max antenna:	80"

COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Length: 8.75" • Conn: SMA

Maldol MH-209 *(BNC Conn)* **MH-209SMA** *(SMA Conn)* **2M/70CM DUAL-BAND HT ANTENNAS**
3" length, soft rubber cover. Good performance in a small package!

COMET NEW! CSB750A DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 3.6dBi 1/2 wave, 446MHz 6.1dBi, 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 42"
• Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB770A DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 4.4dBi 5/8 wave center load, 446MHz 6.9dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 51" • Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB790A DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 5.1dBi 7/8 wave center load, 446MHz 7.7dBi 5/8 wave x 3 center load • VSWR: 1.5:1 or less • Length: 62" • Conn: PL-259 • Max Pwr: 150W

Maldol AX-50 DUAL-BAND 2M/440MHz
Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

Maldol AX-75 DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

Maldol AX-95 DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

COMET B-10 / B-10NMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12"
• Conn: B-10 PL-259 ,B-10NMO - NMO style • Max Pwr: 50W

COMET SBB-2 / SBB-2NMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18"
• Conn: SBB-2 PL-259 • SBB-2NMO NMO style • Max Pwr: 60W

Maldol EX-107RB / EX-107RBNMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length:29"
• Conn: EX-107RB PL-259 • EX-107RBNMO NMO style • Max Pwr: 100W

COMET SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain and wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39"
• Conn: SBB-5 PL-259, SBB-5NMO - NMO style • Max Pwr: 120W

COMET SBB-7 / SBB-7NMO DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58"
• Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

COMET and Maldol Mobile

For a complete catalog, call or visit your local dealer.
Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

Maldol MH-511 TRI-BAND 6M/2M/70CM HT ANTENNA • Length: 4" • Conn: Male SMA

Maldol MH-510 TRI-BAND 6M/2M/70CM HT ANTENNA • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

COMET HT-224 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

Maldol MH-610 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

COMET SBB-224 / SBB-224NMO TRI-BAND 2M/220/440MHz WITH FOLD-OVER • Gain & Wave: 146MHz 2.15dBi 1/4 wave • 220MHz 3.5dBi 5/8 wave • 446MHz 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

Maldol EX-510B / EX-510BNMO TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 1/4 wave • 146MHz 2.15dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 VSWR • Length: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

COMET SB-15 TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 0dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

COMET UHV-4 QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 10M & 6M 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10M 120W SSB 6M2M/70cm 100W FM • Conn: PL-259 • 10M and 6M bands have individual tuning stubs

COMET UHV-6 HF/6M/2M/440MHZ MOBILE ANTENNA *80/*20/*17/40/15/10/6/2M/70cm Mobile antenna with fold-over hinge• Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • **L-14 optional 20M coil *L-18 optional 17M coil *L-3.5 optional 80/75M coil • Features: • 6M/2M/ 70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in• Select the duplexer or triplexer for your specific radio(s): CF-706A, CF-530, CFX-514N.

UHV-6 in fold-over position.
Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc. SB-15 / UHV-4 / UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

Maldol HMC-6S *40/20/15/10/6/2/440MHZ MOBILE ANTENNA WITH FOLD-OVER
Gain & Wave: HF 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF-6M 1.6:1 or less 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM*HMC-7C optional 40M coil

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.
All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.

For Small Antennas & Limited Space

	MODEL / ANT CONN / COAX CONN
Maldol EM-5M	SO-239 / PL-259
Footprint:	1.1"x .75"
Max Antenna:	40"

For Medium Size Antennas

	MODEL / ANT CONN / COAX CONN
COMET CP-5M	SO-239 / PL-259
COMET CP-5NMO	NMO / PL-259
Footprint:	3.4" x 1.25"
Max Antenna:	60"

For Tall or Multi-band HF Antennas

	MODEL / ANT CONN / COAX CONN
COMET HD-5M	SO-239 / PL-259
COMET HD-5 3/8-24	3/8-24 / PL-259
Footprint:	3.75" x 1.1"
Max antenna:	80"

COMET and Maldol Mobile

For a complete catalog, call or visit your local dealer.
Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

UNIVERSAL LIP MOUNTS WITH COAX CABLE COMBINATIONS

Several mounts with coax combos are available to chose from depending on your vehicles available mounting space and antenna size.

No holes to drill, held securely in place with set screws and adjust in multiple planes. Attach to virtually any lip edge that is 1/4" thick or less: trunk lids, van doors, SUV doors, truck doors, hoods, etc...

Deluxe low loss cable assy included for easy entry thru the weather seal without causing water leaks, wind noise, and/or cable damage.

Max power: HF 200W
VHF 75W
UHF 50W

Combine the coax style and length you need with a bracket from below.
(assemblies also available with N-connectors)

COMET
3D5M / 3D4M
Standard low loss cable assy.
Gold plated SO-239 / PL-259 connectors.
3D5M length 16' 6"
3D4M length 13'

COMET
CK-3M5 / CK-3M
Deluxe low loss cable assy.
Includes 18" of mini RG-188A/U type coax for easy entry from a lip mount without causing water leaks, wind noise or coax damage.
CK-3M5 length: 16'6"
CK-3M length: 9'9"

Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.

For small antennas & limited space

MODEL / ANT CONN / COAX CONN
Maldol EM-5M SO-239 / PL-259

Footprint: 1.1"x .75"
(Less than 1 sq inch!)
Max Antenna: 40"

For medium size antennas

MODEL / ANT CONN / COAX CONN
COMET CP-5M SO-239 / PL-259
COMET CP-5NMO NMO / PL-259

Footprint: 3.4" x 1.25"
Max Antenna: 60"

For tall or multi-band HF antennas

MODEL / ANT CONN / COAX CONN
COMET HD-5M SO-239 / PL-259
COMET HD-5 3/8-24 3/8-24 / PL-259

Footprint: 3.75" x 1.1 "
Max antenna: 80"

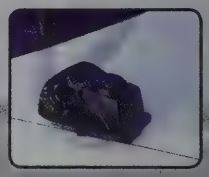
COMET
RS-840
Heavy-duty, 2 adjustment planes. For HF and heavier antennas up to 80".

COMET
RS-730
Heavy-duty, 4 adjustment planes, up to 60" antenna.

COMET
RS-720 / RS-720NMO
Med-duty, 3 adj planes, 60" ant.
RS-720: Accepts SO-239 conn
RS-720NMO: Accepts NMO conn

COMET
RS-520
Light-duty, 3 adjustment planes, up to 45" antenna.

Maldol
PRM-T
Heavy-duty, 3 adjustment planes, up to 80" antenna.



Maldol
MK-30H
12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.

Maldol
EM-B80
Light-duty, 2 adjustment planes, up to 40" antenna.

COMET
GRB-5M
Trunk lip mount, low-profile,black anodized stainless steel. Offset washers provide up to 17 deg. vertical adjustment of antenna.16'9" of deluxe cable included, 18" of mini RG-188A/U style coax for easy entry thru the weatherseal. Gold-plated SO-239/ PL-259 connectors.

COMET
CP-5M
Universal lip mount with coax; SO-239 and PL-259 connectors.

The rear doors on newer trucks are the perfect place to mount antennas • No holes to drill • Above roof line • Easy access • When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.

COMET and Maldol Mobile

For a complete catalog, call or visit your local dealer.
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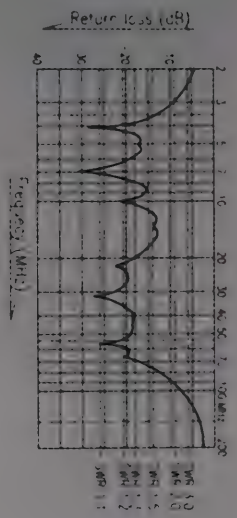
Life is a JOURNEY Enjoy the ride!

COMET and Maldol Base Antennas

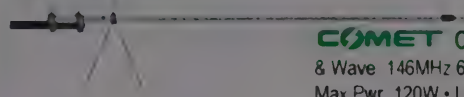


CHA-250B VSWR graph

One person can effortlessly raise the antenna at night when no one can spot it and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it! – Dan Dankert N6PEQ

COMET NEW CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA
A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWRs under 1.5:1 from 3.5-57MHz! • TX: 3.5MHz – 57MHz • RX: 2.0 – 90MHz • VSWR: is 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM• Impedance: 50 Ohm • Length: 23.5' • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd: 1" – 2" dia. • Max wind speed: 67MPH

COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7.11' • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239• 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass



COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3• 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10.2' • Weight: 3lbs. 1oz • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5.11'• Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10.2'• Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

Maldol HVU-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA
80/40/20/15/10/6/2M/70cm. Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M–70cm: 150W FM• Conn: SO-239 • Height: Only 8.6' • Weight: 5lbs. 7ozs.

COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA
BEST SELLER!• Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W• Length: 16' 9" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

COMET NEW H-422 QUAD-BAND HF DIPOLE Compact 40/20/15/10M "V" or Horizontal Dipole • Max power: 1kW SSB • Length "V" Dipole: 24' 3" • Horizontal Dipole: 33' 10" • Shipping length: 79" • Weight: 11 lbs 14 ozs • Wind Load: 3.02 sq feet • Required mast size: 1.5" - 2.5" diameter • CBL-2000 2kW Balun included • Simple installation, band tuning and profile change

COMET and Maldol Antennas

For a complete catalog, call or visit your local dealer.
Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

DIAMOND ANTENNA

The Standard By Which All Others Are Judged

ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Ruggedized Base/Repeater Antennas X500HNA - X50NA - X30A

X500HNA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

Features

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

Specifications:

Frequency:	*2m:* 144-148 MHz	*70cm:* 440-450 MHz
Gain:	*2m:* 8.3 dB	*70cm:* 11.7 dB
Power#:	200 watts	
Wind Rating:	90 MPH (no ice)	
Height:	17.8 feet	

X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Frequency:	*2m:* 144-148 MHz *70cm:* 440-450 MHz
Gain:	*2m:* 4.5 dB *70cm:* 7.2 dB
Power#:	200 watts
Wind Rating:	135 MPH (no ice)
Height:	5.6 feet

X30A

The X30A works well in areas where height and/or antenna restrictions are an issue.

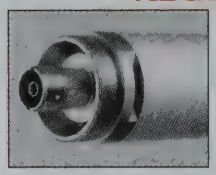
Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

Specifications:

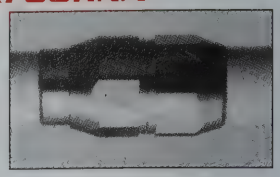
Frequency:	*2m:* 144-148 MHz *70cm:* 440-450 MHz
Gain:	*2m:* 3.0 dB *70cm:* 5.5 dB
Power#:	150 watts
Wind Rating:	135 MPH (no ice)
Height:	4.5 feet

X500HNA and X700HNA



COAX CONNECTION AT BASE END

HEAVY DUTY BASE/ RADIAL ASSEMBLY



STRONG JOINT COUPLINGS

Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
CP22E [1]	144	6.5	200	UHF	9.0	70
DPGH62 [1]	50	6.0	200	UHF	21.0	78
F22A	144	6.7	200	UHF	10.5	112
◆ F23H [8]	144-174	7.8	350	UHF	15.0	90
BC200 [6]	430-490	6.5	200	UHF	5.6	130
F718A	440	11.5	250	N	15.0	90
F1230A II	1.2 GHz	13.8	100	N	12.0	112
G200	2.4 GHz	11 dBi	—	N	4.8	135

Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510NA	144/440	8.3/11.7	200	N	17.2	90
X510HDM	144/440	8.3/11.7	330/250	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+
X700HNA	144/440	9.3/13.0	200	N	24.0	90

Tri-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
V2000A [3,5]	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A [4]	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

BAND: 144=144-148 MHz., 222=222-225 MHz.
420=420-430 MHz., 430=430-440 MHz.
440=440-450 MHz., 1240=1240-1300 MHz.

Power rating should be reduced in repeater service.

NOTES:
1. Heavy duty aluminum construction.
2. X510NJ: 144-147/430-440 MHz.
3. 1/4λ rated in dBi.
4. 2m: 146-148; 100 watts
5. 52-54 MHz only. Tunable.
6. Tunable for 10MHz BW.
7. 1.25 Bandwidth.
8. Tunable 144-174 with cutting chart.

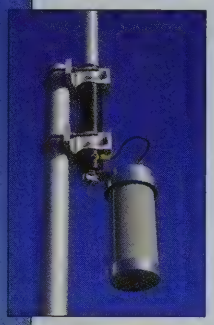
See Price Guide for additional models and pricing. ◆*Indicates New Item.*

You've seen the rest...now own the best!

MULTIBAND VERTICAL & YAGI ANTENNAS

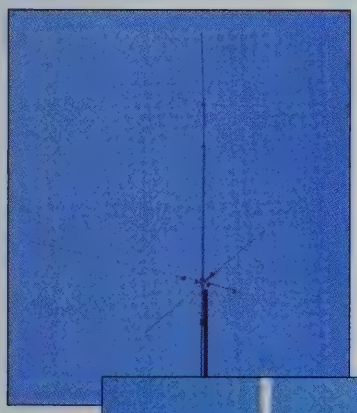
Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

BB7V Multiband Vertical Antenna



Diamond's new BB7V multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5 feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution.

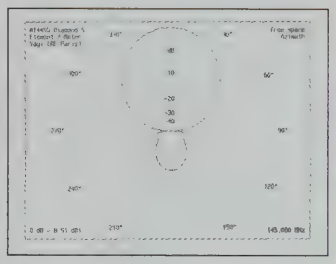
CP725H Quad Band Vertical Antenna

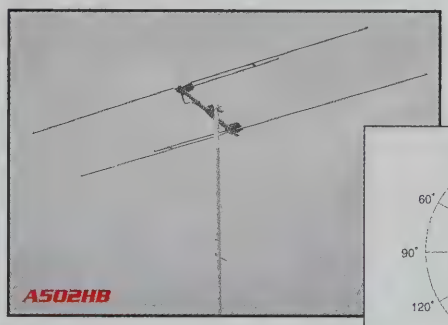


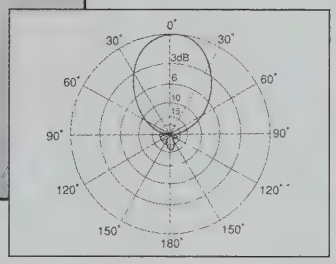
Diamond's new CP725H is a four band (6M, 10M, 15M and 40M) vertical antenna with trap radials. Its light weight, 6.6 pounds, makes it very manageable during the installation process and will allow for a simple mast solution. It is 11.8 feet tall with 71" long radials that can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure.

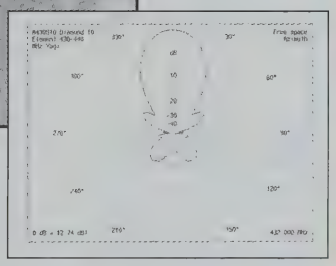
Because of its light weight, and the ability to concentrate radials on one side, the CP725H could be used in an antenna restricted situation where the mast was lowered on its side during daylight and raised while operating during the evening.

Yagi Antennas









Vertical Antennas

MODEL	FREQ (MHz)	IMPEDANCE	WATTS (PEP)	CONN.	BOOM LNTH.	WEIGHT
BB7V	2-30 (W/TUNER)	50Ω	250	UHF	60"/22'	4.5 lbs.
CP725H	6m/10m/15m/40m	50Ω	200/400/500/500	UHF	11.8'	6.6 lbs.

Yagi Antennas

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A144S5	144	9	100	UHF	37.5"	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element

See Price Guide for additional models and pricing. ◆*Indicates New Item.*

You've seen the rest...now own the best!

DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

Maximum Performance Without Compromise

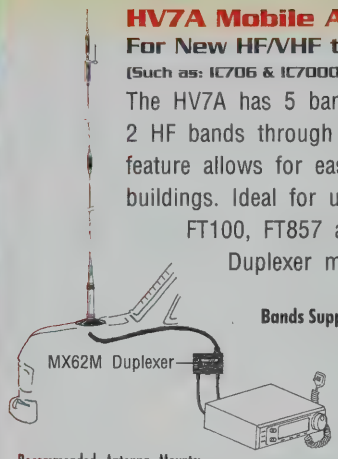
HV7A Mobile Antenna System

For New HF/VHF transceivers

(Such as: IC706 & IC7000 series, FT100, FT857 & FT8900R)

The HV7A has 5 band capability: 70cm, 2m, 6m, plus 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 & IC7000 series, FT100, FT857 and FT8900R radios.

Duplexer may be required for some radios.



Bands Supplied:	10m/6m/2m/70cm
Power, PEP:	HF 120w/VHF 200w
Mount Connection:	UHF
Length:	54"
SWR:	1.5:1 nominal
Opt. Loading Coils:	HVC7 40m HVC14 20m HVC18 17m HVC21 15m

Recommended Antenna Mounts:
K400C, K400S, K600S or K600M

FOLD-OVER

One-Touch Fold-Over Feature.**

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	HT. IN.	ELEMENT PHASING 1/4λ rated in dBi.
M285S*[10]	2m	3.4	200	UHF	52.4	5/8λ
M285SNMO*[10]	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
HF6FX*[6]	6m	2 dBi	250	UHF	40	1/4λ
HF50CX*[6]	6m	3.5 dBi	200	UHF	75	3/8λ
M685S*[6]	6m	2.15 dBi	200	UHF	52.4	1/4λ
M685SNMO*[6]	6m	2.15 dBi	200	NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2λ+1/4λ
NR124NMO	23cm	8.4	100	NMO	25	4-5/8λ
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ., 5/8λ.,
MR77	2m/70cm	2.15/3.4	70	MAG	20	1/4λ., 1/2λ.
MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ., 1/2λ.
NR72BNMO*[6]	2m/70cm	2.15	100	NMO	13.8	1/4λ., 1/2λ.
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ., 1-5/8λ.
NR770HA[7]	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ., 2-5/8λ.
NR770HNMO[8]	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ., 2-5/8λ.
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4λ+1/2λ., 3-5/8λ.
SG7000A*[6]	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ., 6/8λ.
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ., 2-5/8λ.
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ., 2-5/8λ.
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ., 3-5/8λ.
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8λ., 3-5/8λ.
CR320A*[6]	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4λ., 1/2λ.,
CR320BNMO*[6]	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8λ
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ., 2-5/8λ., 5-5/8λ
CR627B*[6,9]	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4λ., 1/2λ+1/4λ.
CR627BNMO*[6,9]	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8λ
CR8900A*[6,11]	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ., 1/4λ. 1/2λ., 2-5/8λ.

6 Grounding required
7 NR770HB same specs but in black finish.
8 NR770HBNMO same specs but in black finish.
9 52-54MHz only
10 Tunable from 140-174MHz
11 FM only
* Not recommended for Magnet Mount
** Fold-Over not available on CR-270A, M285, M285SNMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO, and NR73BNMO

See Price Guide for additional models and pricing. ◆*Indicates New Item.*

HT/SCANNER ANTENNAS

HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

SRH320A SMA
2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4". 10 watts, +3dBR.

SRH805 SMA
2m/70cm/23cm tri-band HT antenna. 1.75", 10 watts.

SRH815 SMA
2m/70cm/23cm tri-band HT antenna. Flexible. 6", 6 watts, +3dBR.

SRH940 SMA
6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts, +2.15dBi. 1/4λ 50-144MHz, 1/2λ 440MHz.

SRH789 SMA
RH789 BNC
Adjustable 1/4λ 93-300MHz; 5/8λ 300-1100MHz, 7 3/4"-32" +9dBR.

RH951S BNC
High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" (Wide band receive), +6dBR.

RH3 BNC
2m/70cm dual band "Black Bullet" HT antenna. 1.75". 120-900 receive.

RH77CA BNC
High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

SRH77CA SMA
High gain 2m/70cm dual band flexible HT antenna. 15", 10 watts, +6dBR.

SRHF40 SMA
RHF40 BNC
Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

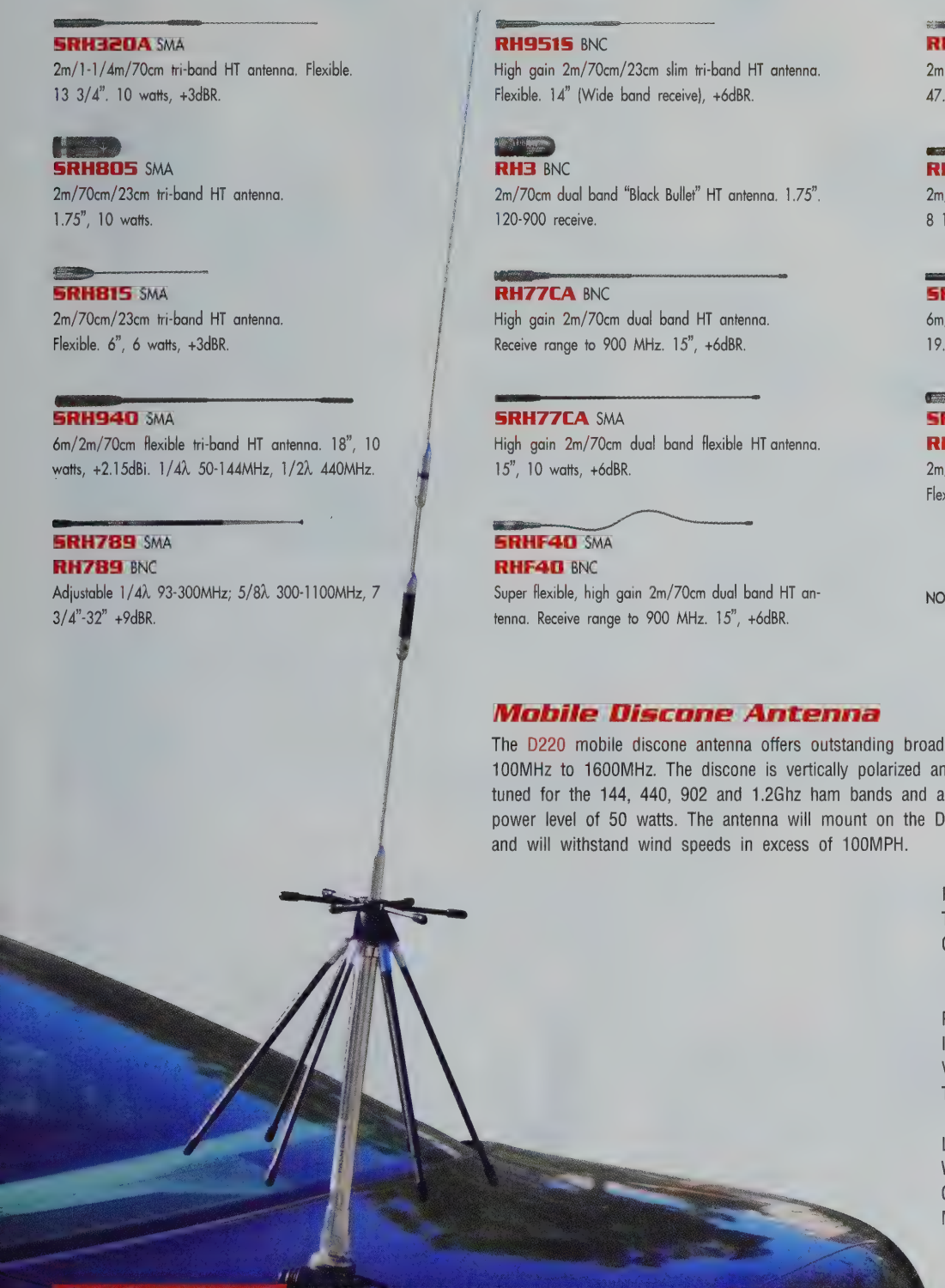
RH205 BNC
2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9", +9dBR.

RH707 BNC
2m/70cm dual-band tiltable whip - HT antenna. 8 1/4", +3dBR.

SRH999 SMA
6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5", 10 watts, +6dBR.

SRH519 SMA
RH519 BNC
2m/70cm slim dual-band HT antenna. Flexible. 8", 10 watts, +3dBR.

NOTES: 1. dBR refers to Relative Gain increase over typical factory supplied antenna.



Mobile Discone Antenna

The D220 mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.

Receive:	100 to 1600MHz
Transmit:	144, 440, 902, 1200MHz
Gain:	2.15dBi 144, 902, 1200MHz, 5.5dBi 440MHz
Power:	50watts PEP
Impedance:	50 ohms
VSWR:	less than 1.5:1
Type:	1/2 wave 144MHz, 2 x 5/8 wave 440MHz
Length:	35.5" / .90m
Weight:	.85 pounds / 385g
Connector:	UHF / PL259
Mounts:	K400 and K600 series

Designed for today's high performance antennas.

PREMIUM ANTENNA MOUNTS

K400 Series
Heavy Duty Hatchback/Door/Trunk Lid Mount

Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

K400C* SO-239 base, 6.5' RG-316/B coax & PL-259
K400CNMO* NMO base, 6.5' RG-316/B coax & PL-259
K400-3/8C* 3/8X24 base, 6.5' RG-316/B coax & PL-259
K400S[1] SO-239 base, 13.5' RG-316/B coax & SMA
K400SNMO[1] NMO base, 13.5' RG-316/B coax & SMA

K412 Series
Deluxe Hatchback/Door/Trunk Lid Mount

Three-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45". Position adjusting knob.

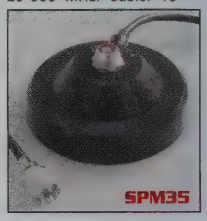
K412C* SO-239 base, 6.5' coax & PL-259
K412CNMO* NMO base, 6.5' coax & PL-259
K412S[1] SO-239 base, 13.5' coax & SMA
K412SNMO[1] NMO base, 13.5' coax & SMA

K702M
Deluxe Low Profile Magnet Mount

Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4"h. For VHF/UHF antennas up to 50"h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.

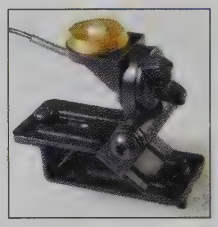
Heavy Duty Magnet Mount

2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45".



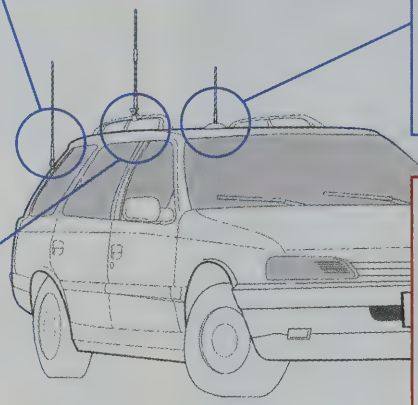
SPM35 SO-239 mount, with PL-259 connector.
DPK4NM-N Type-N mount, with Type-N connector.
SPM-NMO NMO mount, with PL-259 connector.

K515 Series
Universal Luggage Rack Mount

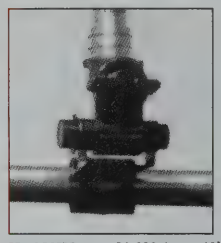


Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for medium-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to fold over, and lock into horizontal position.

K515S[1] SO-239 base, 13.5' coax & SMA, PL-259
K515SNMO[1] NMO base, 13.5' coax & SMA, PL-259



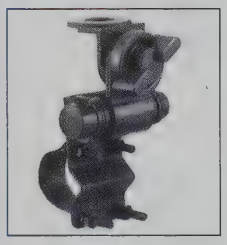
K540
Mirror/Luggage Rack Mount



Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45". Position adjusting knob allows antenna to fold over and lock into horizontal position.

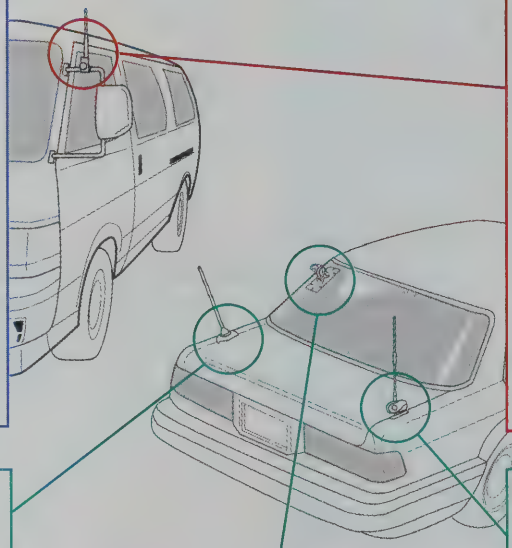
K540KM SO-239 base, 13' coax & PL-259
K540 Mount Only

K550
Luggage Rack Mount



Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.

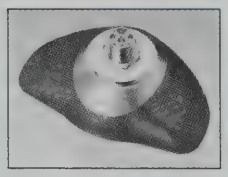
K550KM SO-239 base, 13' coax & PL-259
K550 Mount Only



CRM
Mirror/Luggage Rack Mount

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.

K600
Variable Angle Trunk Mount



Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

K600M SO-239 base, 16.5' two-step RG-188 Teflon® + 10" 5D coax & PL-259
K600S[1] SO-239 base, 13.5' RG-316 Teflon® coax & SMA

HRKS
Adhesive Backed Mount

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B Teflon® coax with SMA connector. PL-259 adapter included. Recommended antennas: NR770HA, NR770HB, and SGM510.

K9000
Motorized Mount

Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45". 0-90° range. Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series. Recommended cable group: C213 / C213NMO

K9000TM* Trunk/Hatchback Mount
K9000LRM* Luggage Rack Mount
K9000LRMO* Luggage Rack Mount - Oversize/K515 style clamp.

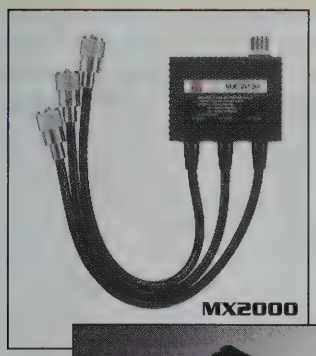
* Use C110 for front radio installations.
[1] Includes SMA to PL259 adapter.

See Price Guide for additional models and pricing. ◆ *Indicates New Item.*

The Standard By Which All Others Are Judged

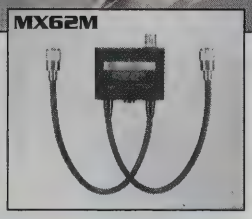
CABLE ASSEMBLIES - COAX SWITCHES
LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

Duplexers & Triplexers


MX2000

MX72H/N

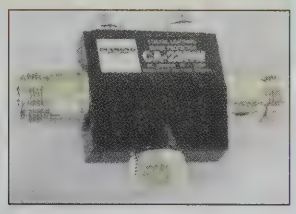
MX72D


MX62M

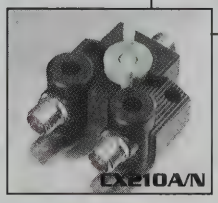
Dummy Loads & Coaxial Switches

DL30A

DL30N



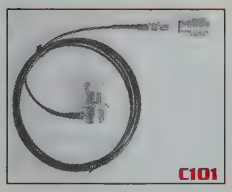
CX310A


CX210A/N

MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY	LPF		HPF	LPF	BPF	HPF	LPF	HPF
BAND (MHz)	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
PWR CW (ICAS)	400	150	100					
WATTS P.E.P.	1000	400	250	800	800	500	600	
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL	60dB			60dB			50dB	
VSWR	1.2:1			1.2:1			1.2:1	
CONNECTOR COMPLEMENT	(M) MIX 144 430 (M)(M)	(M) MIX 144 430 (M)(M)	(M) MIX 144 430 (M)(N)	(M) MIX 50 144 430 (M)(M)(M)			(M) MIX HF VHF (M)(M)	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

MODEL	DESCRIPTION
CA35RS	Lightning surge protector, DC-1000 MHz, 400w, SO-239
CA35RPW	Lightning surge protector, DC-1000 MHz, 400w, UHF(F) to UHF(M), Waterproof.
CA23RS	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F)
CA23RW	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F), Waterproof.
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak, PL-259
DL30N	Dummy load, DC-500 MHz. 15w average/100w peak, Type-N

Cable Assemblies


C101

C101-3/8CKIT

C104SMA

C110

C105SMA

C101

SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO Same as C101 with NMO base. For Diamond's K-Series mounts.
C213 Same as C101, 13.5' RG-316 Teflon® cable
C213NMO Same as C101NMO, 13.5' RG-316 Teflon® cable
C101-3/8C Same as C101, 13.5' RG-316 Teflon® cable
C101-3/8CKIT Upgrades any K400 mount to a K400-3/8C. Includes 3/8-24 hardware & C101-3/8C cable assembly

C104SMA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC 10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male.
C110SMA Similar to C110BNC, terminates in SMA-male.
C211 SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

C105SMA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

2M/70CM Dual Band Series Antennas

Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

NMO2/70SH $49.99
Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: NMOUHFBASEB
Height: 19"
Whip: WNMO2/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO2/70B $79.99
Freq: 144-148/440-450 MHz
Gain: 1.6/3.5 dBd
Power: 100 Watts
Type: VHF: Center Loaded 1/2 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts.

MM2/70PL $64.99
Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200/100 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: 3" Round Mag Mount
Height: 18"
Whip: WMM2/70

Complete 2m/70cm magnetic mount antenna with 12' of RG-58A/U coax.

LARSEN® ANTENNAS
A Pulse Brand
3611NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
Fax: 800-525-6749
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

Kulglass Series High Performance Glass Mount Antennas

Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Larsen's unique bonding enhancer ensure the best possible grip to the glass.

KG2/70CXPL $139.99
Freq: 144-148/442-448 MHz
Gain: 0/2 dBd • 2.4/4.5 dBd*
Power: 100 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Conn: PL-259
Height: 32.75"
* Ground plane required for gain.

Glass mount dual band antenna for 2m/70cm amateur radio frequencies with coax and connector.

KG144UDPL $89.99
Freq: 144-160 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna with coax and connector

KG440UDPL . . . . . Closeout $39.99
Freq: 440-460 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG4400/S
Conn: PL-259
Height: 15"
Whip: WKG440

Complete KG UHF glass mount antenna with coax and connector.

Tri-Band Scanner Antenna
NMO150/450/800 $29.99
Freq: 150-165/450-470/806-940 MHz
Gain: -7/0/1 dBd
Type: Tri-Band Scanner Only
Mount: NMO
Height: 16.5"

Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Larsen portables. Full soldered connections and silver-plated components improve electrical efficiency. Double spring BNCs reduce wear on the mount. Other styles are available.

KD4146HQ $25.99
Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/4 Wave Helical
Conn: BNC
Height: 10.5"

KD142MHW. $38.99
Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/2 Wave Telescoping
Conn: BNC
Height: 11 to 44.5"
Whip: WKD142HW

KD42/70 . . . . . .$39.99
Freq: 144-148/440-450 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave
Conn: BNC
Height: 9"
Impedance matching transformer provides high Q and deeper resonance.

KD14445 . . . . . .$19.99
Freq: 406-512 MHz (SPEC 445 MHz)
Gain: Unity
Type: 1/4 Wave
Conn: BNC
Height: 6.5"

OM150CK $69.99
Complete self-mounting, no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.
Freq: 144-174 MHz
Gain: 2.5 dBd*
Power: 200 Watts
Type: 1/2 Wave
Height: 51.75"
Whip: W490
Coax: 17' of RG-58A/U
Conn: PL-259
* Ground plane required for gain.

Hear The Difference!

Industry's Best NMO Mobile Antennas

Larsen's version of the standard 3/4" Motorola TAD/TAE type mount (NMO) uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

NMO27C (Chrome) $32.99
NMO27B (Black) $36.99
Freq: 27-31 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490

NMOQSPEC (Chrome) $9.99
NMOQSPECB (Black) $15.99
NMOQSPECK (3/4" Kit Chrome) . .$24.99
Freq: 136-960 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 22"
Whip: W200

NMO50C (Chrome) $32.99
NMO50B (Black) $36.99
Freq: 47-54 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Height: 52.5"
Whip: W490

NMO150C (Chrome) $30.99
NMO150B (Black) $33.99
Freq: 144-174 MHz
Gain: 3 dBd
Power: 200 Watts
Type: 5/8 Wave
Height: 51.5"
Whip: W490

NMO440C (Chrome) $29.99
Freq: 440-460 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 33"
Whip: W154

NMO900B (Black) $39.99
Freq: 890-960 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 12.75"
Whip: W195B.100, enclosed coil

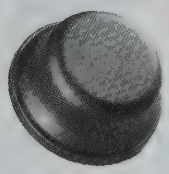
Base Station Antennas

Larsen manufacturers a variety of small base station antennas for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.

BSAKIT $53.99
Freq: 144-512 MHz
VSWR: 1.5:1or less
Power: 200 Watts
Conn: UHF Female
Whip: 51.75"

Complete base station kit for designing a base station unit from 144-152 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mobile GPS Antenna



GPSNMO02 . . . . . .$69.99
Freq: 1575.4 MHz
Gain: 5 dBic/28 ± 2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO
Height: 1.3"
Diameter: 3"

Mounts

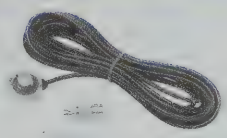
Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, inlcuding premium coaxial cable.

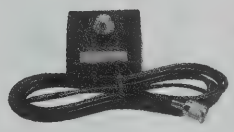
NMOK $15.99
Motorola-style Roof Mount
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259

NMOTLP $29.99
Motorola-style Low Profile Trunk Lip Bracket, Black
Size: 1.75" x 1.75"
Coax: 17' RG-58A/U
Conn: PL-259

NMOMMR. . . .$32.99
Motorola-style Round Magnetic Mount
Size: 3.5" Round
Coax: 12' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs.

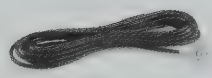
POK $32.99
SO-239 female type roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U
Conn: PL-259





POMM $36.99
SO-239 female type magnetic mount
Size: 3.5" x 3" rectangle
Coax: 17' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs

NMOKHFUD . . .$12.99
NMO style roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U Dual Shield
Conn: Not Included



Parts and Accessories

W490 . . . . . .$9.99
Chrome .100 tapered replacement whip for 144 MHz (49")

W490B $12.99
Black .100 tapered replacement whip for 144 MHz (49")

W2/70B $29.99
Black .100 tapered replacement whip for NMO2/70B (approx. 31")

RGSS $5.99
3 SuperSeal NMO Gaskets

SPRING $10.99
Shock Spring

HP34 . . . . . .$3.99
(5) 3/4" Rubber hole plugs

KGREINSTALL $9.99
Reinstall Kit for KGs

NMOCAPB. $5.99
Black NMO Rain Cap

LARSEN® ANTENNAS

A Pulse Brand
3611NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
Fax: 800-525-6749
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

VHF and UHF Mobile Antennas

Unity Gain

THF $25.99

VHF/UHF Trunk Lip Mount Antennas.
- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector

UHT-1 . . . . $17.99

VHF/UHF Roof/Deck Hole Mount Antenna.
- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

UGM $23.99

VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector

Collinear Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB $17.99
SF-220 220 MHz 3.4 dB $17.99
- Power rating: 100 watts
- 3/8 x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB . . $28.99
RX-220 220 MHz 3.4 dB . . $28.99
RX-440 440 MHz 5.0 dB . . $28.99
- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector

Collinear High Gain Mobile Antenna

CG-144 5.2 dB 6 MHz BW $36.99
CG-220 5.2 dB 4 MHz BW $36.99
- Power rating: 200 watts
- 3/8 x24 thread
- 5/8 over ¼ wave
- Collinear design

CGT-144 5.2 dB 6 MHz BW . . . $59.99
CGT-220 5.2 dB 4 MHz BW . . . $59.99
- Coil same as above
- Swivel ball for vertical positioning
- Quick disconnect for easy removal
- Trunk mount base

MKR-2 Radial Kit $23.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded

MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB . . $37.99
MX-220 220 MHz 3.4 dB . . $37.99
MX-440 440 MHz 5.0 dB . . $49.99
- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector

MX-2B 144 MHz 3.4 dB . . $42.99
MX-440B 440 MHz 5.0 dB . . $49.99
- Same as above but all black coil

BBG Series NMO Swivel Ball & Spring Antenna

BBG-144 3.4 dB . . $49.99
BBG-440-5 5.0 dB . . $49.99
- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB . . $56.99
BBGT-440-5 5.0 dB . . $49.99
- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector

Dual Band 2 meter/ 70cm Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . . $34.99
- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

MX-270 . . . . $63.99
- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector

LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . $27.99
LMG-440-5 5.0 dB gain . . $24.99
- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

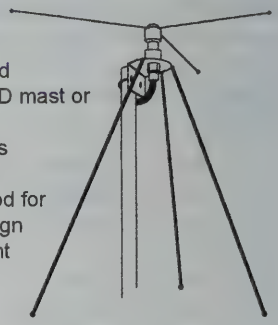
LMC-144 3.4 dB gain . . $25.99
LMC-440-5 5.0 dB gain . . $25.99
- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top

LMB-144 3.4 dB gain . . $23.99
LMB-440-5 5.0 dB gain . . $25.99
- Power rating: 200 watts
- NMO style coil
- Black coil

Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX $25.99
- 40 – 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCLB $37.99
- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

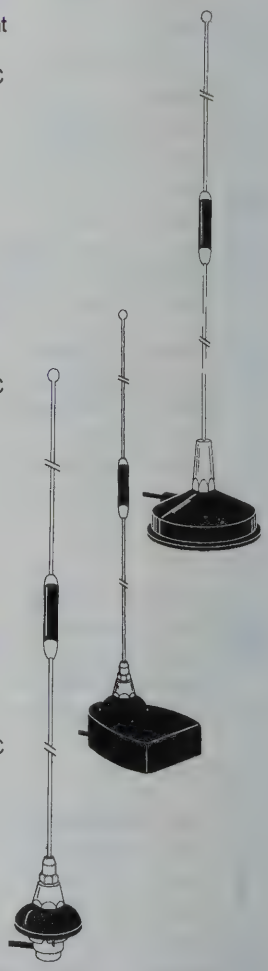
Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB $19.99
- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC connector

MOTB $21.99
- Trunk mount
- 15 ft RG58/U coax
- Available with BNC connector

MORB $19.99
- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC connector



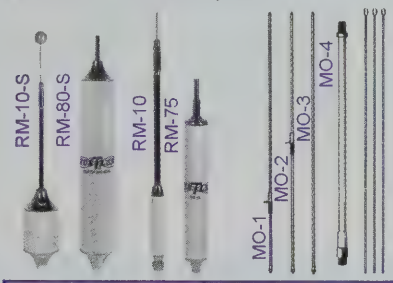
New-Tronics Antenna Corporation
225 Van Story Road
Mineral Wells, Texas 76067-9563

Phone: **940.325.1386**
Toll Free: **877.994.9499**
Fax: **940.325.5077**

Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	$18.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	$18.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	$18.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	$18.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	$25.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	$25.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	$28.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	$28.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	$30.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	$30.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	$30.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	$27.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	$27.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	$28.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	$32.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	$41.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	$57.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	$57.99



Mobile HF Antennas
Hustler Masts

MO-1 . . . . $36.99
Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

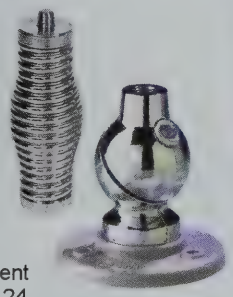
MO-2 . . . . $36.99
Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3 . . . . $27.99
Mobile mast, 54" length, for bumper. fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

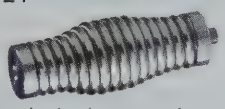
MO-4 . . . . $22.99
Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Professional Chrome Series

C-32 . . . . $18.99
Chrome plated 1 ½" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.



C-30 . . . . $14.99
Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



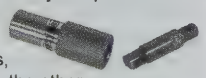
C-29 . . . . $21.99
Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

Resonator Spring
RSS-2 . . . . $13.99
Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.

Magnet Mount $22.99
MBM "Super" Magnet

- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".

Quick Disconnect
QD-2 . . . . $24.99
100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



VP-1 . . . . $7.99
Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.

Bumper Mount BM-1 . . . . $25.99
Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.

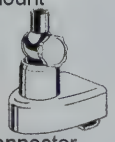
Professional Stainless Steel Series

SSM-1 . . . . $52.99
Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

SSM-2 . . . . $32.99
Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3 . . . . $29.99
Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.

HLM . . . . $25.99 Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



TLM . . . . $25.99 Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

HOT . . . . $26.99 Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.

RVM . . . . $23.99 Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

HUSTLER®

Model G3-144 . . . . $74.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

ELECTRICAL
- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

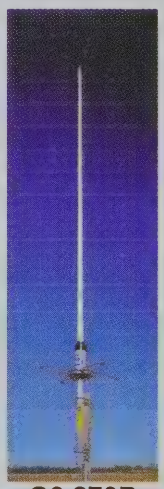
MECHANICAL
- Termination: SO-239
- Length: 7' 5
- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 ¾
- Construction: High strength

Model G3-144

Model G6-270R $199.99
Dual band 2 Meter & 440 MHz

ELECTRICAL
- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz – 2 Meters; 10 MHz – 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: N female
- Length: 7' 6
- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾
- Construction: one piece radome

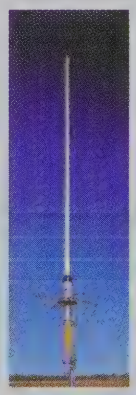


G6-270R

Model G6-440 . . . . $179.99

ELECTRICAL
- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: Type N female
- Length: 7' 3
- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾



G6-440

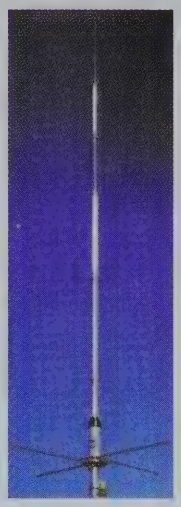
VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G7-144 . . . . $199.99
Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

ELECTRICAL
- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: N female
- Length: 15' 4
- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾
- Construction: High strength fiberglass & aluminum.

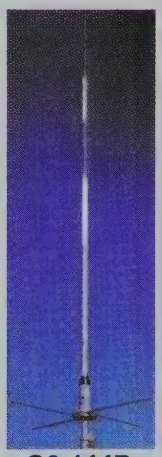


G7-144

Model G6-144B $139.99
Two Meter

ELECTRICAL
- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: SO-239
- Length: 9' 9
- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾

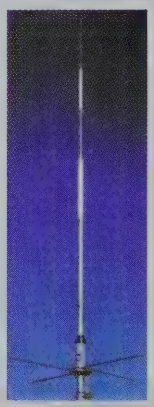


G6-144B

Model G7-220 . . . . $169.99

ELECTRICAL
- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: Type N female
- Length: 10' 2
- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾



G7-220

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and perma-nent resonance. Our highly accurate traps provide top signal reports and consistent contacts.
Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded – low VSWR at band edges
- Power capability – full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

Model 6-BTV $199.99
Bands 10-15-20-30-40 & 75 or 80 meters
Length/weight 24 ft. / 16.5 lbs.
Mounting Vertical support up to 1.75 O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

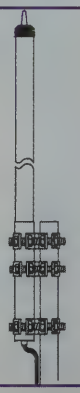
Model 5-BTV $179.99
Bands 10-15-20-40 & 75 or 80 meters
Length/weight 25 ft. 1 in. / 16.5 lbs.
Mounting Vertical support up to 1.75 O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV $149.99
Bands 10-15-20-40 meters
Length/weight 21 ft. 5 in. / 15 lbs.
Mounting Vertical support up to 1.75 O.D.
Wind Load 28 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better

Model 30-MTK $47.99
30 meter add on kit for the 4 and 5 BTV

Spirit Series - RepeaterAntenna

Hustler's ominidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions.
Great for your club or tower use.
We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3,6,9, or 12 dB depending on the frequency.
Custom frequencies available, call for a quote.



www.new-tronics.com

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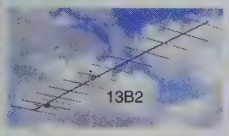
CUSHCRAFT CORPORATION | Laird TECHNOLOGIES

AMATEUR RADIO ANTENNAS

HF/VHF/UHF…
the right antennas for every ham since 1950



DIPOLE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	LENGTH (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE ($)
SINGLE BAND								
D-40	40M	UNITY	42.25	1500	1.5-2	1.3	12	369.99
MULTIBAND								
D-4	40/20/15/10M	UNITY	35.8	1500	1.5-2	1.3	13	419.99
D-3	20/15/10M	UNITY	25.8	1500	1.5-2	0.9	9	299.99
D-3W	30/17/12M	UNITY	34	1500	1.5-2	0.9	11	299.99

For detailed information you can download Cushcraft instruction manuals from http://www.cushcraft.com/amateur/support/instruction-manuals.htm

VERTICAL ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	HEIGHT (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE ($)
SINGLE BAND								
MA160V	160M	0	30-36	1500	1.5	>1	12	249.99
AR-10	10M	3	17.6	1000	1-1.25	1.68	4	99.99
AR-6	6M	3	10.1	1000	1-1.25	0.37	2.5	99.99
ARX-2B	135-160	7	14	1000	1-1.25	0.5	6	84.99
ARX-2	135-160	5	9.3	1000	1-1.25	0.4	4	69.99
AR-2	135-160	3	3.9	1000	1-1.25	0.21	1.5	59.99
ARX-220B	222-225	7	9.3	500	1-1.25	0.3	5	84.99
ARX-450B	435-450	7	4.9	500	0.75-0.88	0.2	1	84.99
AR-450	440-460	3	1.4	500	0.75-0.88	0.1	1	45.99
MULTIBAND								
MA8040V	80/40M	0/2	23-27	1500	1.5	>1	9	259.99
R8	40/30/20/17/15/12/10/6M	3	28.5	1500	2	2.5	23	539.99
R6000	20/17/15/12/10/6M	3	19	1500	1.5-1.75	1.5	12.5	369.99
MA6VA	20/17/15/12/10/6M	1-2	14.7	250	1.25-2	0.82	6.9	319.99
MA5VA	20/17/15/12/10M	1-2	14.7	250	1.25-2	0.82	6.5	259.99
AR270B	2M/430-450	5.5/7.5	7.7	250	1.25-2	0.47	2.4	124.99
AR270	2M/430-450	3/5.5	3.75	250	1.25-2	0.27	2	114.99

High Performance in all applications / Made in the U.S.A.

BEAM ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	ELEMENTS	GAIN (dBi)	F/B RATIO (dB)	BOOM (FT)	LONGEST ELE (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE ($)
SINGLE BAND											
XM-240	40M	2	6	20-25	22	43	1500	2.5	5.5	55	829.99
TEN3	10M	3	8	25	8	18	2000	1.5-2	2	10	249.99
A50-6S	6M	6	11.6	26	20	9.9	1000	1.5-2	4.46	18	349.99
A50-5S	6M	5	10.5	24	12	10.25	1000	1.5-2	2.9	11	219.99
A50-3S	6M	3	8	20	6	9.75	1000	1.5-2	1.8	7	139.99
26B2	2M	26	18.8	26	15	3.3	1500	1.5-2	4.84	21.5	499.99
17B2	144-145	17	18	26	31	3.4	1500	1.5-2	3.9	15.75	299.99
13B2	2M	13	15.8	26	15	3.3	1500	1.5-2	1.8	6.7	199.99
A148-20T	2M	10H/10V	13	24	11	3.4	1000	1.25-2	0.39	7	174.99
A148-10S	2M	10	13.2	24	12	3.4	1000	1.25-2	1.21	6	124.99
124WB	2M	4	10.2	19	4	3.3	1500	1.25-2	0.34	3	109.99
A148-3S	2M	3	7.8	18	2.8	3.4	1000	1.25-2	0.27	1.5	77.99
224-WB	222-225	4	10.2	20	3	2.2	1500	1.25-2	0.23	1.7	96.99
719B	430-450	19	15.5	25	13.5	13.75	2000	1.25-2	1.2	5.6	189.99
A430-11S	430-440	11	13.2	20	4.6	1.16	350	1.25-1.5	0.42	4	99.99
A449-11S	440-450	11	13.2	20	4.4	1.08	350	1.25-1.5	0.39	4	99.99
A449-6S	440-450	6	10.5	18	2.9	1.08	350	1.25-2	0.3	3	73.99
MULTIBAND											
ASL2010	20/17/15/12/10M	8	6.4	15-20	18	38	1500	1.5-2	10.1	55	899.99
MA5B	20/17/15/12/10M	2/1/2/1/2	3.6/1/4.8/1/5.5	22/0/12/0/10	7.3	17.1	1200	1.5	3.2	27	399.99
X7	20/15/10M	7	12.5	30	18	37	2000	2.5	7.9	60	799.99
A4S	20/15/10M	4	8.9	25	18	32	2000	1.25-2	5.5	37	649.99
A3S	20/15/10M	3	8	25	14	27.75	2000	1.25-2	4.4	27	549.99
A3WS	17/12M	3	8	25	14	25	2000	1.25-2	4.1	23	429.99
A627013S	6M/2M/430-450	3/5/5	8/10/10	20/20/18	7.3	9.75	1000/350/350	1.25-2	2.52	9.5	249.99
A27010S	2M/440-450	5/5	10/10	20/18	6.2	3.4	350	1.25-2	0.73	1.8	129.99
A2706S	2M/430-450	3/3	7.8/7.8	20/8	2.8	3.4	350	1.25-2	0.3	1.7	99.99

Pro•Am ANTENNAS & ACCESSORIES

160-6 Meters Mobile

PHF Series Antennas

Single band whips consisting of a black fiberglass lower section with integrated coil and an adjustable and removable stainless steel whip, except for the PHF-160. These time-proven HF antennas are especially designed for maximum efficiency, low VSWR and broad bandwidth. They are power rated for 250 Watts P.E.P. and built to withstand considerable use. Standard 3/8" x 24 thread base, assembled length on all models is 96 in. (the PHF-6 is 58 in.).

You can use two PHF whips and any Dual Adapter Mount to make up a shortened single band vertical or horizontal dipole which is perfect for limited space or portable operation.

Model	Band	Bandwidth	Price
PHF-160	160M	12 kHz	$69.99
PHF-75	75M	36 kHz	24.99
PHF-40	40M	60 kHz	24.99
PHF-20	20M	150 kHz	24.99
PHF-12	12M	300 kHz	24.99
PHF-10	10M	500 kHz	24.99
PHF-6	6M	1000 kHz	20.99

PHB-144

CX-144

2 Meters

PHB-144
5/8 wave, 3dB gain over 1/4 wave, covers 144-174 MHz. Tuned, low loss coil with 1-1/8" threads to match Pro•am and 3/4 in. hole Motorola TAD/TAE mounts. Rated 100W, length 49 in **$29.99**

CX-144
5/8 wave, 3 dB gain over 1/4 wave. Heavy duty matching coil with a standard 3/8 in. x 24 chrome-plated base. Rated at 100W, 49"..... **$19.99**

Dual Band 2M & 70CM +

MO144-440
Covers 2M/70cm, plus it works great for all band scanners from 25 MHz to 1.3 GHz. Stainless steel whip. Mount with 1-1/8 in. threads that match 3/4" hole pro•am and Motorola TAD/TAE mounts. SWR less than 2:1. Gain: unity on 2m and 2.1dB over a 1/4-wave on 70 cm. 19 in. long **$19.99**

Micro Dual Band

MM-270B
Dual Band 2M/70cm MICRO-MAG™ with a 1-1/8 in. black ABS rare earth magnetic base and stainless steel 20 in whip. A 2M 1/4-wave and 70 cm 5/8-wave with unity gain and 1.5:1 VSWR throughout the bands. Rated for 50W on 2m and 25W on 70 cm. Has 9 ft. o RG-174 cable to a BNC ..... **$19.**

PMM-3B
Tri-Band (40W) 2M / (24W) 70cm + (15W) 824-896 MH cellular/Scanner. Similar to MM-270B MICRO-MAG™ above. 13-1/2 in. tall with 9 ft. coax and BNC.... **$19.**

Utility

PAQA
A unity gain stainless steel UHF/VHF whip that covers 136 to 866 MHz with cutting required. Nickel/chrome plated brass base with 1-1/8" threads to match Pro•am and 3/4" hole Motorola TAD/TAE mounts. includes cutting chart..... **$16.99**

Thru-the Glass Scanner

HWTGSBNC
Thru-the-glass Scanner Antenna for 112-1200 MHz **receive only**. Cable has BNC connector. 22" tall..... **$36.99**

Trunk-Lip Adapter for AST-TMK

AST-TMK

AST-MMK

AST-MMK Magnet/Trunk Mount Kit – Uses a 3-3/4 in. heavy duty magnet for superior holding strength, and easily converts into an adjustable trunk lip mount. Accepts a 3/8 x 24 stud base. Black powder coated finish... **$29.99**

AST-TMK Heavy-duty Universal Trunk Kit – Trunk lip mount with adjustable swivel bracket for proper angle on any vehicle. Accepts a 3/8 x 24 stud base. Black powder coated finish..... **$29.99**

Both models include a 18 in. RG-175 coax cable with mini-u connection for easy routing to the interior of the vehicle body, and 16-1/2 ft. of RG-58 coax with a PL-259 for direct connection to the radio.

Mounts & Accessories

AST-SO239
5/8" hole antenna mount. Accepts SO-239 antenna base. Mini-u connector, coax not supplied **$6.99**

AST-NMO
5/8" hole antenna mount. Accepts NMO-style antenna base. Mini-u connector, coax not supplied.... **$6.99**

PAN-38
3/8" x 24 stud to NMO mount adapter.. **$16.99**

PAT-2B
Black low profile Motorola-style trunk-lip mount with 17 ft. of RG-58 cable and PL-259 connector..... **$15.99**

PASMO
Motorola-style 3/4 in. hole surface mount only, less cable and connector **$7.99**

SS-100MOT
Stainless steel 3-way mirror mount with a Motorola-style 3/4 in. mount. Includes 10 ft. of RG-58 cable & PL-259..... **$19.99**

101ADN
Heavy duty aluminum double groove horizontal mirror mount. SO-239 connector, accepts 3/8" x 24 stud..... **$7.99**

100ADT
Extra heavy duty aluminum 3-way mirror Mount. SO-239 connector, accepts 3/8" x 24 stud **$9.99**

100ADN
Extra heavy-duty aluminum double groove mirror mount. SO-239 connector...accepts 3/8" x 24 stud **$7.99**

PAMB
Motorola-type mount on a 3-3/4 in. diameter low profile magnet. Pre-wired with 12 ft. of RG-58 cable and PL-259 plug ... **$24.99**

301
Same as PAMB but with a 4 inch diameter magnetic base... **$16.99**

401
Same as PAMB but with a 5 inch diameter magnetic base... **$19.99**

MM-3401
A heavy-duty magnet mount for NMO based antennas. Includes an adapter for a 3/8" x 24 thread base. Features three 5 in. diameter magnets mounted on a heavy duty aluminum frame and protected by an tough ABS plastic cover. Includes 17 ft. of RG-58 cable with PL-259 connector. Dim: 9-1/2" x 9-1/2" x 2"h. Wt: 8 lbs **$59.99**

105ADT
Mount assembly for 3/8" hole. Chrome-plated brass hex and nickel-plated SO-239. Plug to plug connection **$4.99**

105HDT
Mount assembly for 1/2" hole. Extra heavy-duty nickel plated brass hex. For plug to lug connections..... **$3.99**

103S
Quick disconnects for quick antenna removal. One 3/8" x 24 base and 5 spring loaded twist-lock connectors ...**$24.99**

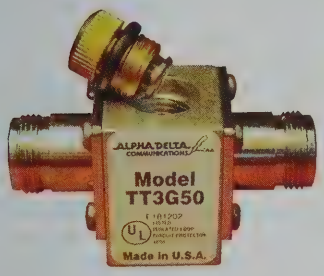
120
Radio Hump Mount. The saw-tooth design grips without damage to carpet. Adjustable, steel, baked black finish **$10.99**

Effective Atmospheric Surge Voltage Protection

Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your hamshack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage … and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to do a good job of proper grounding as outlined in the ARRL Handbook, etc.

Lightning Surge/EMI Protectors



UL LISTED – Certified protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

Models:

ATT3G50
0-3000 MHz; 200W; N Female **$59.99**

ATT3G50-HP
0-3000 MHz; 2000W; N Female **$59.99**

ATT3G50U
0-500 MHz; 200W; UHF (SO-239)..... **$49.99**

ATT3G50U-HP
0-500 MHz; 2000W; UHF (SO-239)..... **$49.99**

Replacement Arc-Plug Cartridges

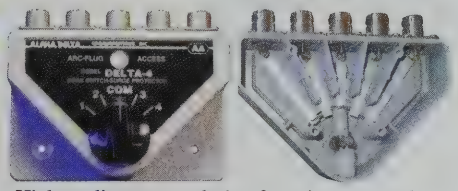
ATT/3G50 for ATT3G50 or ATT3G50U.. **$14.99**

ATT-HP/3G50HP for ATT3G50-HP and ATT3G50U-HP..... **$14.99**

Important Notice:
The Defense Logistics Agency (DLA) has assigned a National Stock Number (NSN) to the TT3G50 Coax Surge Protector and 3G50 ARC-PLUG™ Cartridge for use in all Military and NATO applications Worldwide.

www.alphadeltacom.com

Lightning Surge Protected Coaxial Switches



- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Uses constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies
- Precision machined switch shaft and rotation mechanism with solid positive detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Automatically grounds unused antennas to reduce antenna interaction, noise and the effects of lightning and static charges.
- Rated for Full Legal power.

Models:

DELTA-2B – 2-position, with SO-239 connectors and rated for operation up to 500 MHz **$59.99**

DELTA-2B/N – 2-position, with N-type connectors, rated for operation up to 1.3 GHz **$75.99**

DELTA-4B – 4-position, with SO-239 connectors, rated for operation up to 500 MHz..... **$89.99**

DELTA-4B/N – 4-position, with N-type connectors, rated for operation up to 1.3 GHz..... **$99.99**

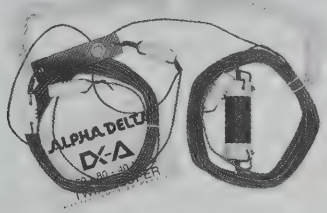
Antenna Insulator Kit with Surge Protection

DELTA-C – Includes a center insulator and two end insulators. The best for dipoles and wire antennas using either coaxial cable or balanced feed line. Highest quality and rugged – made from an virtually unbreakable UV/RF resistant material. Stainless steel hardware is used in the center insulator, and all connections are hard soldered. Handles full legal power. An easily replaceable built-in Arc-Plug® in the center insulator provides protection from the effects of lightning and static charges..... **$29.99**

SEP – Replacement Arc-Plug® cartridge . **$15.99**

DELTA-CIN – End insulator only ..... each **$1.99**

Limited Space Slopers



- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

DX-A – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long..... **$100.99**

DX-B – A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground..... **$110.99**

Shortened Multibanders

- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon support rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally as an inverted V.

DX-CC – 80-40-20-15-10M, 82 ft. long . **$160.99**

DX-DD – 80/40M, 82 ft. long **$130.99**

DX-EE – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long..... **$140.99**

DX-LB – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using a wide range antenna tuner, 100 ft. **$160.99**

DX-LB PLUS – Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft..... **$190.99**

Full-Size Monoband Dipoles

- 50 ohm coax feed, no traps, handles full power
- Installs horizontally or as an Inverted V
- Rugged, full-size performance
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

DX-80 – 75/80 meters, 134 ft. long..... **$70.99**

DX-40 – 40 meters, 67 ft. long **$70.99**

DX-20 – 20 meters, 34 ft. long **$70.99**

AV-18HT

AV-18HT Hy-Tower 10/15/20/40/80M Vertical – The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance .. Drop Ship **$949.99**

Specifications
- **Bands:** 10, 15, 20, 40, and 80 Meters
- **Gain:** Unity 20, 40, 80; 2 dB on 10/15
- **80M Bandwidth:** 250 kHz @ 2:1 VSWR
- **Power:** 1500W PEP
- **Height:** 53 feet
- **Weight:** 114 pounds
- **Wind Survival:** 75 MPH

AV-18HT-JR Hy-Tower Jr. – Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy walled 2 in. aluminum main radiator swedged at the top. Mounts on 1-1/4 in. pipe..... **$349.99**

Specifications:
- **Bands:** 10, 15, 20, 40, and 80 Meters
- **Power:** 1500W PEP
- **Height:** 39 ft.
- **Weight:** 25 pounds
- **Survival:** Self-supporting up to 40 mph
- **Mast Size:** 1-1/4 in.

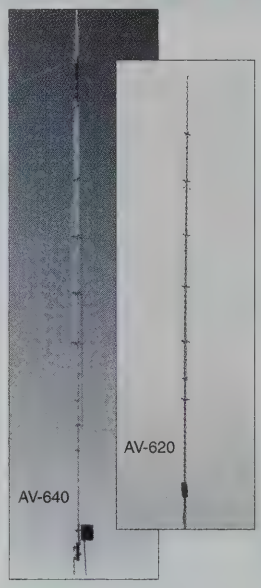
AV-18HT-JR

AV-14AVQ 10/15/20/40M Vertical – A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware..... **$169.99**

Specifications:
- **Bands:** 10, 15, 20, and 40 Meters
- **Power:** 1500W PEP
- **Height:** 18 ft.
- **Weight:** 9 pounds
- **Wind Survival:** 80 MPH
- **Mount:** 1.5 in - 1.625 in. pipe

AV-18AVQ II 10/15/20/40/80M Vertical
Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs .. **$229.99**

DX-88 10/12/15/17/20/30/40/80M Vertical
All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs..... **$369.99**



Multi-Band *PATRIOT* Vertical Antennas

- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W

AV-640 6 to 40 Meter Vertical – Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12, and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30, 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counter poise system replaces conventional ground radials. Mounts easily on decks, roofs, and patios..... **$399.99**

Specifications:
- **Bands:** 6, 10, 15, 17, 20, 30, and 40 Meters
- **VSWR at resonance (typical):** 1.5:1
- **Power Handling:** 1500W, key down 2 minutes
- **Vertical Radiation Angle:** 17 degrees
- **Horizontal Radiation Angle:** 360 degrees
- **Height:** 25.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.5 square feet
- **Wind Survival:** 80 mph

AV-620 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable..... **$299.99**

Specifications:
- **Bands:** 6, 10, 15, 17, and 20 Meters
- **VSWR at resonance (typical):** 1.5A
- **Power:** 1500W, 2 minutes key down
- **Vertical Radiation Angle:** 17°
- **Height:** 22.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.4 sq. ft.
- **Wind Survival:** 80 MPH

TH-7DX 7-Element Tri-Band Beam, 10/15/20 Meters – A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun..... **$799.99**

Specifications:
Gain: 8.77dBi • **F/B:** 21dB • **Power:** 1500W PEP • **Boom Length:** 24 ft. • **Longest Element:** 31 ft. • **Turning Radius:** 20 ft. • **Mast Diameter:** 1.5-2.5 in. • **Surface Area:** 9.4 sq. ft. • **Wind Load @ 80 mph:** 240 lbs • **Wind Survival:** 100 mph • **Weight:** 75 lbs

TH-5MK2 5-Element Tri-band Beam, 10/15/20 Meters – Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun **$699.99**

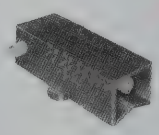
Specifications:
Gain: 8.3dBi • **F/B Ratio:** 20dB • **Power:** 1500W PEP • **Boom Length:** 19 ft. • **Longest Element:** 31.5 ft. • **Turning Radius:** 18.42 ft. • **Mast Dia.:** 1.5 - 2.5 in. • **Surface Area:** 7.4 sq. ft. • **Wind Load @ 80 mph:** 190 lbs • **Wind Survival:** 100 mph. • **Weight:** 57 lbs.

TH-3MK4 3-Element Tri-band Beam, 10/15/20 Meters – The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended..... **$469.99**

Specifications:
Gain: 8.0dbi • **F/B Ratio:** 25dB • **Power:** 1500W PEP **Boom:** 14 ft. • **Longest Element:** 27.42 ft. • **Turning Radius:** 15.33 ft. • **Mast Diameter:** 1.9-2.5 in. • **Wind Area:** 4.6 sq. ft. • **Wind Load @ 80 mph:** 118 lb • **Wind Survival:** 95 mph • **Weight:** 35 lbs.

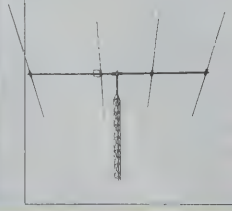
TH-3JRS 3 Element Tri-Band Beam, 10/15/20 Meters – The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design. **$359.99**

Specifications:
Gain: 8.0dBi • **F/B Ratio:** 25dB • **Power:** 600W PEP • **Boom Length:** 14.75 ft. • **Longest Element:** 27.25 ft. • **Turning Radius:** 14.3 ft. • **Mast Dia:** 1.25-2.0 in. • **Wind Area:** 3.35 sq. ft. • **Wind Load @ 80 mph:** 83 lbs • **Wind Survival:** 80 mph • **Weight:** 21 lbs.



BN-86 Broadband 50Ω Ferrite Balun – Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector..... **$79.99**

Single Band HF Beams



- Stronger, lighter, less surface area & years of High Performance
- Exclusive 50 ohm *BetaMatch*™ for Direct Coax feed with great match and DC grounding • A BN-86 50Ω Ferrite Balun is recommended for improved front-to-back ratio.

LJ-103BA 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain..... **$159.99**
LJ-105CA 10 Meters, 5 Elements, 24 ft. boom, 10.8dBi Gain..... **289.99**
LJ-153BA 15/12 Meters, 3 Elements, 12 ft. boom, 7.9dBi Gain..... **199.99**
LJ-204BA 20 or 17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain .. **499.99**

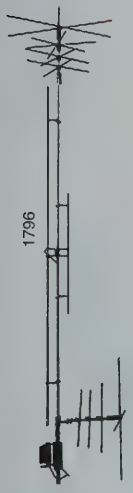
1910

1622 Apartment Antenna – Operate 40 thru 10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope..... **$99.99**

1910 Telescoping Fiberglass Mast – Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DXpeditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33 ft. and collapses to 3.8 ft. Bottom section 1.75 in. diameter; 3.3 lbs... **$79.99**

Telescoping Whips – Available in 12 and 10 ft. lengths. Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base loaded antenna to greatly improve the efficiency. Use two to make a portable dipole.

1956 12 ft. extended, 22.5 in. collapsed..**$34.99**
1954 10 ft. extended, 29 in. collapsed.....**$29.99**



1796

1/2-wave, 6-Band No-radials Vertical 12 ft. tall, Mounts Anywhere, 40-6M

1796 – Only 12 feet high with a tiny 24 inch foot print. Mount it anywhere – ground level to tower top, apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions, camping. Uses efficient end loading with no lossy traps. And, the entire length is always radiating. Automatic bandswitching, low angle radiation, omni-directional pattern, handles 1500W PEP **$219.99**

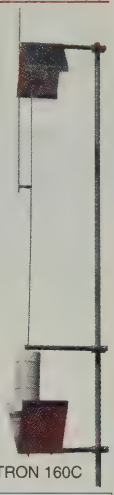
1778
G5RV All-Band Antenna

A center fed, 102 ft. flat top antenna with a 300Ω twin-lead feeder system and SO-239 connector to accept a 52 ohm coax run from the shack. This unique design provides all band coverage from 80-10 meters with a nominal VSWR. For versatility, using an antenna tuner is recommended with most rigs. Easily installs as a flat top, inverted-V or sloper. It also works well on 160 meters operating as a Marconi with a proper tuner and good RF ground. Handles 1500W **$44.99**

ISOTRON
BILAL COMPANY
www.isotronantennas.com

Simple & Effective...
ANTENNAS FOR VERY LIMITED SPACE

- Easy, quick, and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.



ISOTRON 160C

Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50–75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Cast acrylic and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
HxWxD (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16½x2x4
BW	100 kHz	110 kHz	250 KHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	**$173.99**	**$109.99**	**$88.99**	**$78.99**	**$78.99**	**$78.99**	**$78.99**

80/40 COMBO – (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32"h x 16"w x 30"d; 10 lbs..... **$188.99**

20/15/10 COMBO – Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 4"h x 32"w x 30"d; 10 lbs..... **$198.99**

40/20 COMBO – Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during the 2005 weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 22"h x 16"w x 32"d; 6 lbs..... **$167.99**

***SPECIAL ORDER!* – You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.**

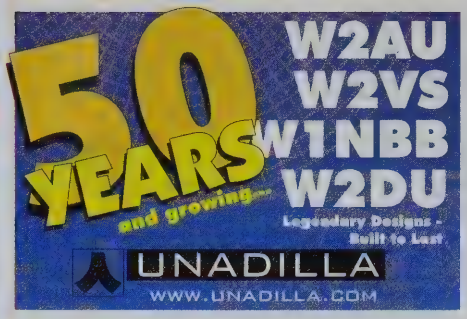
Portable 40-10M Antenna

1621 – A complete portable 10 through 40 meter antenna for use in practically any location – apartment, campsite, hotel, even at the beach. Consists of a 54 in. telescoping whip antenna mounted on a sturdy, cabinet which contains a built-in antenna tuner and field strength meter. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. Just place the unit in any electrically clear location, set the bandswitch, apply power, and tune the capacitor for maximum field strength. The whip is easily removable and collapses to 22 in. for convenient transport. Dim: 6"w x 3"h x 6"d, 3 lbs **$99.99**

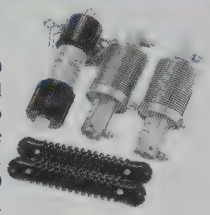
Super High-Q Loop Antennas for Limited Space

1786 – Made with 1.050 in. diameter round tubing and only 36 in. in diameter, operates 10 to 30 MHz continuously and handles 150W. Mount vertically for low angle DX or horizontally for local work. Automatic tuning remote control box tunes to the desired band and fast/slow tune buttons and built-in two range Cross-Needle SWR/Wattmeter let you quickly tune to an exact frequency. All welded construction, no mechanical joints, polished butterfly capacitor. Operates thru the coax without control cable. **$419.99**

1788 Super High-Q Loop Antenna – Same as the MFJ-1786 but covers 40-15 meters..... **$469.99**

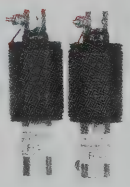


W2AU/W2VS 5-BAND ANTENNA KIT



Resonant on 40 and 80 meters. SWR on 10, 15 and 20 meters is typically 2:1 to 4:1; some radios may require a transmatch. 110 ft. long, rated 2 KW PEP. Includes 40 meter traps, W2AU balun and end insulators. Requires 120 ft. of wire, not included..... W2AUW2VSNOWI **$78.99**

REYCO ANTENNA TRAPS

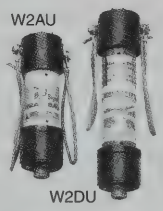


Add to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 and 160M with low SWR.

Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.

KW-10 – 10 Meters..... pair **$45.99**
KW-12 – 12 Meters..... pair **45.99**
KW-15 – 15 Meters..... pair **45.99**
KW-17 – 17 Meters..... pair **46.99**
KW-20 – 20 Meters..... pair **46.99**
KW-30 – 30 Meters..... pair **47.99**
KW-40 – 40 Meters..... pair **47.99**
KW-60 – 60 Meters..... pair **49.99**
KW-80CW – 80 Meters CW..... pair **52.99**
KW-80F – 80 Meters Phone..... pair **52.99**

W2AU FERRITE BALUNS



Replaces the antenna center insulator. Smooth unbalanced to balanced transition ensures proper current distribution. DC grounded for lighting protection, center support hook. Usable from 1.8-40 MHz, rated 2KW PEP SO-239 connector.

W2AU 1:1 – 1.1, 1.8-40 MHz ferrite..... **$26.99**
W2AU 4:1 – 1.1, 1.8-40 MHz ferrite..... **26.99**
W2AU BEAM – 1.1, Beam balun..... **27.99**

W2DU CHOKE BALUNS

High efficiency, *transformerless* 1:1 baluns. The HF model is the only one available that works on 160 meters! All rated to handle a VSWR up to 5:1 at the legal limit, allowing use with an antenna tune.

W2DU-HF – 1:1, 1.8-30 MHz Choke..... **$28.99**
W2DU-VHF – 1:1, 30-250 MHz Choke..... **28.99**
W2DU BEAM – 1:1, 40-10m choke..... **29.99**

W2AU ANTENNA INSULATORS

HA AN-Insulator™ – A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" diameter..... **$11.99**

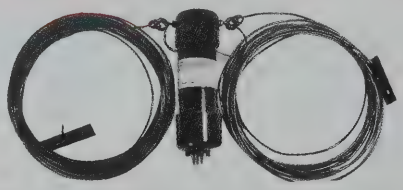
HE END-Insulator™ – Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1" diameter... pair **$6.99**

RadioWavz

Ready-Made
HF WIRE ANTENNAS

The **G5RV** antenna, with its special feeder arrangement, is a Multiband center-fed antenna with very efficient operation on all HF bands from 3.5-30 MHz. Made with of high quality copper coated steel UV insulated wire on the top and 300 ohm twin lead terminating into a SO-239 connector.

G5RV 102 ft. long, 32 ft. tall..... **$39.99**
G5RV JR 51 ft. long, 14 ft. tall..... **28.99**
G5RV LITE 68 ft. long, 32 ft. tall..... **48.99**
G5RV MAX 204 ft. long, 56 ft. tall..... **75.99**



Nothing beats a **Tuned Dipole** for simple, efficient, and versatile performance. With a dipole you configure the antenna as an inverted-V, flat top, or "L". The Dipole works best at the band that it is designed for, however with an antenna tuner coverage may be expanded. The included 1:1 balun isolates and converts the unbalanced transmission line to balanced for improved operation.

10MC/BALUN 17 ft. 10M dipole w/balun **$37.99**
12MC/BALUN 19 ft. 12M dipole w/balun **37.99**
15MC/BALUN 22 ft. 15M dipole w/balun **37.99**
17MC/BALUN 26 ft. 17M dipole w/balun **37.99**
20MC/BALUN 32 ft. 20M dipole w/balun **39.99**
30MC/BALUN 46 ft. 30M dipole w/balun **47.99**
40MC/BALUN 66 ft. 40M dipole w/balun **47.99**
80MC/BALUN 130 ft. 80M dipole w/balun **59.99**
160MC/BALUN 250 ft. 160M dipole w/balun **79.99**

The **DOUBLE BAZOOKA ANTENNA** – An extremely broad banded 1/2-Wave Coaxial Antenna which operates efficiently across an entire ham band with little change in SWR. No balun required. Feeds directly with 50 ohm coax.

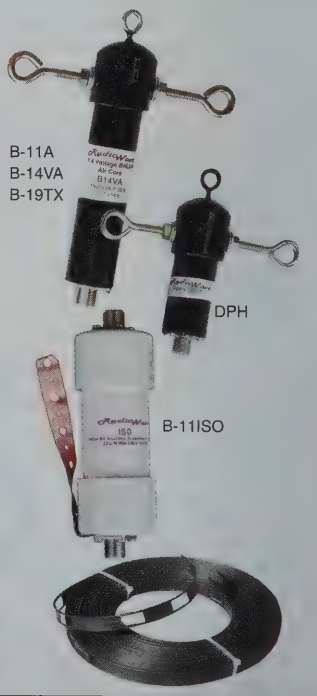
40M-DBZ 70 ft. 40M Double Bazooka.... **$59.99**
75M-DBZ 127 ft. 75M Double Bazooka.... **79.99**
160M-DBZ 265 ft. 160M Double Bazooka **129.99**

Premium Low Loss
COAXIAL JUMPERS
with PL-259 Connectors and Strain Relief

RG-213
J213-U1 1.5 ft. RG-213 w/PL-259's..... **$14.99**
J213-U3 3 ft. RG-213 w/PL-259's..... **16.99**
J213-U6 6 ft. RG-213 w/PL-259's..... **17.99**
J213-U12 12 ft. RG-213U w/PL-259's..... **24.99**
J213-U25 25 ft. RG-213 w/PL-259's..... **34.99**
J213-U50 50 ft. RG-213 w/PL-259's..... **55.99**
J213-U75 75 ft. RG-213 w/ PL-259's..... **73.99**
J213-U1X 100 ft. RG-213 w/PL-259's..... **94.99**
J213-U12X 125 ft. RG-213 w/PL-259's... **114.99**
J213-U15X 150 ft. RG-213 w/PL-259's... **136.99**

RG-8X
J8X-U1 1.5 ft. RG-8X w/PL-259's..... **$9.99**
J8X-U3 3 ft. RG-8X w/PL-259's..... **11.99**
J8X-U6 6 ft. RG-8X w/PL-259's..... **14.99**
J8X-U12 12 ft. RG-8X w/PL-259's..... **22.99**
J8X-U25 25 ft. RG-8X w/PL-259's..... **29.99**
J8X-U50 50 ft. RG-8X w/PL-259's..... **37.99**
J8X-U75 75 ft. RG-8X w/PL-259's..... **49.99**
J8X-U1X 100 ft. RG-8X w/PL-259's..... **63.99**

BALUNS & ISOLATORS



B-11A 1:1 Voltage BALUN – Trifilar wound Air Core type with a 1:1 impedance ratio. Rated for 1500W PEP from 1.8 to 30 MHz. Use for transforming a 50Ω unbalanced load to a 50Ω balanced load. For Dipoles, beams, etc. Dim: 6.5" long x 1.75" diameter..... **$21.99**

B-11ISO In-line RF Isolation Transformer – An 1:1 UNUN (unbalanced to unbalanced) device that isolates the signal and ground paths on coaxial lines. This eliminates noise due to ground currents and pick-up over long cable runs, breaks or prevents ground loops. A ground strap provides a direct path to ground. Effective from 1.8 to 50 MHz, full legal power. Dim: 7" long x 2.75" diameter..... **$29.99**

B-14VA 4:1 Voltage BALUN – Air core type with a 4:1 impedance ratio. Rated for 1500W PEP from 1.8 to 30 MHz. Use for matching a 200Ω load to a 50Ω load, or a 300Ω load to a 75Ω load. Dim: 6.5" long x 1.75" diameter..... **$25.99**

B-19TX 9:1 Isolation/Current BALUN – Rated for 1500W PEP from 1.8 to 30 MHz. Use for matching a 450Ω load to a 50Ω load, or 675Ω load to a 75Ω load. Typical uses are for Rhombics, Delta loops, and V-beams, folded tilted terminated dipole and end-fed Vee antennas. Body dim: 6.5" long x 1.75" diameter..... **$29.99**

DPH – Weatherproof antenna support without a balun and with SO-239 connector. Body dim: 4" long x 1.75" diameter..... **$9.99**

TWINLEAD & LADDER LINE

TL308100 100 ft. 18 gauge 300Ω Twinlead..... **$24.99**
TL454100 100 ft. 14 gauge 450Ω Ladder line..... **54.99**
TL458100 100 ft. 18 gauge 450Ω Ladder line..... **24.99**

Off Center-Fed Six Band Antenna

OCF – Covers 75/80, 40, 20, 17, 12 & 10 meters all without the use of an antenna tuner. The rugged broadband design features an integral 6:1 balun and flexible, 65 strand 12 ga. PVC coated wire. The special balun is permanently sealed from the weather, and is internally crimped and soldered to a silver/Teflon® SO-239 connector; a stainless eyebolt provides for attaching a support rope. The two sections are 45 and 90 ft. long requiring an overall install space of 135 ft. Alternately, it can be erected in only 68 ft. of space, but coverage is limited to 40, 20 & 10 meters only. Rated 300W CW/SSB. Comes fully assembled, ready to install. Wt: 7 lbs **$191.99**

MEADOW RIDGE PRODUCTS

COPPERWELD® Antenna Wire

Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire – the best for antennas. Its very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. Available in 12, 14 or 18 gauge.

AN-122 – 100 ft. #12 ..... **$39.99**
AN-123 – 150 ft. #12 ..... **49.99**
AN-124 – 250 ft. #12 ..... **79.99**
AN-126 – 500 ft. #12 ..... **139.99**
AN-128 – 1000 ft. #12 ..... **239.99**
AN-181 – 250 ft. #18 ..... **24.99**
AN-182 – 500 ft. #18 ..... **39.99**

synthetic textiles,inc.

Black Dacron® Polyester Rope

Constructed of strong double braid Dacron® polyester fiber. It's colored black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and the ends seal with the short application of a small flame or hot tool.

After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. Use for overhead and side boom support on beam antennas to eliminate conductors in the RF field which can cause pattern distortion.

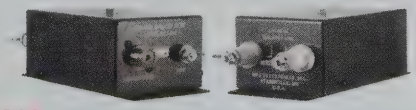
100' – 100 ft., 260+ lbs. strength, 3/32".... **$9.99**
100' 3/16 – 100 ft., 770+ lbs., 3/16"..... **18.99**
100' 5/16 – 100 ft., 1790+ lbs., 5/16"..... **26.99**
350' – 350 ft., 770+ lbs., 3/16"..... **49.99**

Ladder Line Center Insulator/Support

LADDERLOC – Provides a secure attachment for 450Ω ladder type transmission line to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point provided for a support rope. UV resistant..... **$12.99**

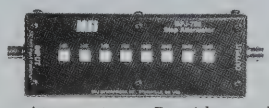
MFJ

4602 Antenna Feedthrough Panel – Simply place in window sill (up to 48 in. wide) and close the window down on it. You can feed three coax-fed antennas, balanced line, random wire and a ground into the shack without drilling through walls. Made of 3/4 inch pressure-treated wood sandwiched between two stainless steel plates. Has three Teflon® SO-239 coax feedthru connectors, three ceramic balanced line/random wire feedthru insulators and ground connection. Dim: 48"w x 3.5"h x 0.75"d **$69.99**



912 W9INN Remote Balun – Converts unbalanced coaxial line to balanced ladder line. When using an antenna with balanced line you can still use coax from your rig, thru walls, etc. to a more convenient location to attach the feeders without detuning. Uses a 2-core 4:1 balun wound with teflon® wire and heavy-duty ceramic feed-thru insulators. Handles 1500W. SO-239 connector, ground post and mounting holes.
Dim: 3.25"w x 2.25"h x 7"d **$69.99**

201 Dip Meter
Find a coil's resonant frequency. Couple it to an antenna or coax line to find their electrical length. Use it as an absorption wavemeter for measuring transmitter output, neutralizing tank circuits, or even a field strength meter. Other uses include: crystal oscillator, monitoring audio signal outputs and measuring inductance and capacitance. Solid-state design, covers 1.5 to 250 MHz in six bands. It has thumb wheel tuning, color coded readout, six coils, earphone jack and battery check. Requires one 9V battery.
Dim: 2.5"w x 2.0"d x 7"h **$139.99**



762 Step Attenuator – Provides push-button selection of up to 81dB of attenuation in 1dB steps up to 170 MHz and usable to 500 MHz. Rated for 250 mW maximum. 50Ω in/ out, BNC connectors with SO-239 adapters. Metal cabinet.
Dim: 6.5"w x 2.5"h x 1.5"d **$89.99**

COMET

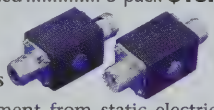
H-422 Provides remarkable performance in a compact design. A perfect choice when an efficient but compact antenna is needed for a small or antenna restricted location. Assembles in either a "V" or "straight" configuration. In the "V" shape good performance is achieved at only 10-15 ft. above ground. Three pre-drilled radiator lengths for easy tuning to low-mid-high band ranges; the 40 Meter band tunes independently. Extruded aluminum mounting brackets, stainless steel U-bolts and hardware. Includes CBL-2000 50Ω balun with SO-239 connector **$349.99**

- Length: 24.3 ft. in "V" configuration, 33.6 ft. mounted horizontally
- VSWR: Less than 1.5:1
- Maximum Power: 1000W SSB / 500W PEP.
- Mast Requirement: 1.25 - 2.5 inch diameter
- Weight: 11.8 lbs
- Wind Load/Wind Survival: 9.9 sq. ft./ 67 MPH

CUSHCRAFT CORPORATION | Laird TECHNOLOGIES

5VB Vinyl Boot Kit
Slide on to coax before installing the connector. Apply silicone grease, slide the boot up to seal, waterproof and protect connector from the elements. Waterproof connector boots come in a package of five along with individual tubes of silicone grease included ..... 5 pack **$15.99**

Fast-acting Gas Discharge Lightning Arresters



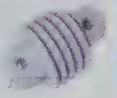
Protects radio equipment from static electricity and lightning induced surges up to 5,000 Amps while clamping the surge voltage to less than 50V in less than 100ns. Weather resistant aluminum case, brass hardware. Dim: 3"w x 1"h x 1"d.

LAC-4 200W rating, SO-239 connectors. **$64.99**
LAC-4H 2KW, SO-239 connectors..... **$70.99**
LAC-4N 200W rating, type-N female **$79.99**
LAC-4NH 2KW rating, type-N female..... **$84.99**

Replacement Gas Discharge Tubes
LC-2 200W, for LAC-4/4N..... **$19.99**
LC-2KW 2000W for LAC-4H/4NH..... **$22.99**

MFJ Antenna Insulators – Extra strong glazed ceramic. Molded ridges give extra-long path to prevent high-voltage breakdown. Use as center or end insulator for dipoles, doublets, guy wires, etc. Dim: 2.3" long x 1" dia... **16CO1** each **99¢**

ALPHA DELTA Antenna Insulators
Made from an extremely rugged UV and RF resistant DELTALLOY material that is so tough, you can drop it off a roof without damage. Dim: 2.7" long x 1.7" dia. .... **DELTA-CIN** each **$1.99**



Lakeview Co., Inc.

WD4BUM HAMSTICKS®

Two-Piece Monoband Mobile Antennas

Hamstick 75 thru 10M models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black shrink-wrapped PVC. It's fitted on one end with a 3/8" X 24" brass base fitting to fit most mobile mounts. A black 48 inch stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6M model has a 34 inch base section and whip. Frequency vs length graphs are included.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, on 40 and 75M, you can capacitively match the base for a better match using values from the instruction sheet. If you frequently change bands you can use the IM-1 **Inducti-Match** which is an impedance matching coil that simply installs at the base of the antenna and adjusts by using the supplied clip lead to tap up the coil for the best match.

Hamstick Models (band)

9106 (6M)	**9110** (10M)	**9112** (12M)
9115 (15M)	**9117** (17M)	**9120** (20M)
9130 (30 M)	**9140** (40M)	**9160** (60M)
9175 (75M)		

All Hamstick models..... each **$39.99**

901 Dipole Mount – Attach two Hamsticks to make an effective shortened dipole **$19.99**

IM-1 Inducti-Match **26.99**

TM-1 License Plate Mount – 3/8" x 24..... **49.99**

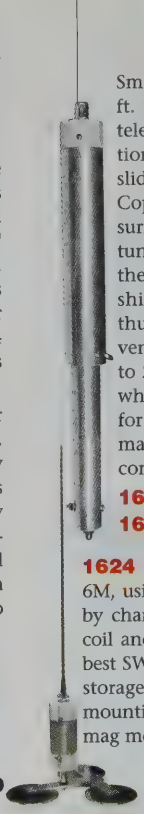
YAESU

ATAS-25 HF/VHF/UHF QRP Field Antenna – Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 & 430 MHz. Switch bands by changing the supplied elements and adjusting coil. SWR: <2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle; (144/430 MHz) 50W. Recommended mount is a camera-type tripod (not supplied). SO-239 base. Dim: 7.2 ft. tall, 2 lbs..... **$249.99**

ATAS-120 HF/6/2/430 Motorized Tuning Antenna – Mechanically resonates the radiating element for lowest SWR using control voltages thru the coaxial cable from an ATAS equipped Yaesu. Recommend use of a duplexer otherwise coaxial cable must be moved manually to correct jack when switching VHF & UHF. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W @ <2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs **$299.99**

ATBK-100 VHF/UHF Antenna Base Kit – Not required unless operating the VHF or UHF bands with the ATAS-120 off-vehicle. It restores the low-angle response for enhanced performance. Use with suggested base mount **$99.99**

MFJ Manually Tuned Screwdriver Antenna



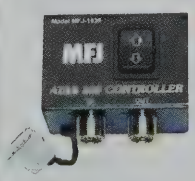
Small and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to an existing mount.

1661 – 40-6M, 12 in.; 1 lb **$139.99**

1664 – 80-6M, 15 in.; 1.25 lbs.... **$169.99**

1624 HF Mini Bugcatcher – Operate 40 thru 6M, using up to 300W P.E.P. Very simple tuning by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Versatile mounting using a trunk lip, mirror, luggage or tri-mag mount (shown but not included) .. **$89.99**

1899T Walkabout™ Multi-band Telescoping Antenna – Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil and measures only 8 in. collapsed **$79.99**



1925 Screwdriver Antenna Controller – Use the Yaesu ATAS screwdriver antenna with Alinco, Kenwood and other transceivers. Installs in-line between the antenna and rig and provides the necessary control voltage to operate the antenna..... **$79.99**

1925I2 Screwdriver Antenna Controller Designed for the **Icom IC-706** with a special control cable and 4-pin connector that mates with the 706 controller port. The Up/Down switch puts the 706 in low power and tunes antenna. When the lowest SWR is found, simply release the switch and you're ready to operate. Simple to install. No modification to the radio or antenna is necessary **$79.99**

1910 Telescoping Fiberglass Mast (left) – 33 ft. tall, collapses to 3.8 ft. and weighs only 3.3 pounds. Pull out each section and twist to lock. Its great for portable and temporary use – traveling, camping, from hotels, hamfests, field day, DXpeditions. Use it to make other antenna like loops and quads. The mast is made of super strong fiberglass and flexes to resist breaking, the bottom section has a 1-3/4 in. diameter. Black coating resists UV.....**$79.99**

1910

ORDER ONLINE!

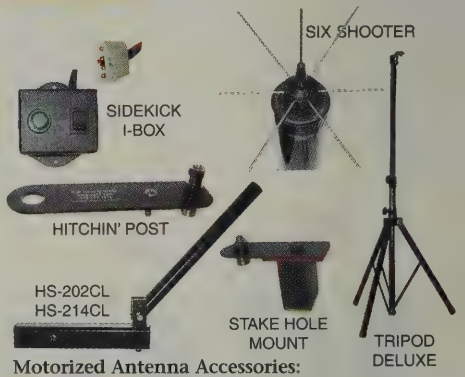
High Sierra AntennAs

PLATINUM PACK Continuous coverage Motor Driven HF Antenna Package – The HS-1800/PRO antenna provides continuous tuning from 3.5–30 MHz with a typical VSWR of less than 1.5:1 across the entire tuning range. Removing the supplied 6 ft. whip changes the range to 6.9–60 MHz. The "best antenna" for general mobile use because of its light weight, high performance and ability to cover the entire HF spectrum. Great for stealthy operation at antenna-restricted QTHs, ARES/RACES and more! The complete package, ready to install, includes the HS-1800/PRO, black powder coat finish with black stainless-steel whip, black universal mounting bracket, quick-disconnect manual control box, RF filter assembly and installation kit (20 ft. of control cable, wire ties, (2) PL-259's, 3 ft. of ground strap and sealing material .. **$545.00**

SIDEKICK Continuous Coverage, Motor Driven HF Antenna – Similar in design to the HS-1800/PRO but, only 15 in. tall and comes with 3 ft. whip. Covers 3.5-60 MHz, handles 200W. Includes manual control box, RF filter assembly and 3/8-24 threaded base to use with a mounting bracket **$395.00**

SIDEKICK I-BOX Continuous Coverage, Motor Driven HF Antenna – Same as Sidekick, but includes a semi-automatic I-box controller for Icom transceivers: IC-703, 706, 718, 736, 746, 756, 765 and IC-775 with no external power needed. To tune, just press the switch on the control box. The transceiver automatically transmits with low power. When the SWR drops down, release the switch. Typical tune-up time is less than 10 seconds **$445.00**

I-BOX7000 I-BOX for Icom IC-7000 .. **$110.00**



Motorized Antenna Accessories:

HS-202CL Layback Adapter – Fits a 2 in. trailer hitch receiver. Removing a pin allows the vertical rod to lay back at a 45° angle for access to trunk, rear hatch or tail gate. Black powder coat.. **$130.00**

HS-214CL Layback Adapter – Same as 202CL, but fits 1.25 x 1.25 in. hitch receiver..... **$130.00**

SIX SHOOTER Capacity Hat – Shown mounted on the Sidekick. Improves performance **$70.00**

STAKE HOLE MOUNT – Used to install the Sidekick and other antennas into the stake hole on a pickup truck (bed sidewall). It has an SO-239 with a 3/8-24 thread for the antenna connection .. **$27.00**

TRIPOD DELUXE – A strong aluminum adjustable 6 ft. tripod, the perfect antenna mount for the next trip or emergency. Includes a stainless angle 3/8-24 thread antenna mount with SO-239 connector and (8) 10 ft. long wire radials .. **$130.00**

HITCHIN' POST – Mounts under a trailer hitch-ball. Made from thick stainless steel, black power coated. Standard 3/8-24 thread antenna mount, SO-239 connector and ground screw **$50.00**

OUTbacker System

The Outbacker – provides efficient, multiband mobile performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

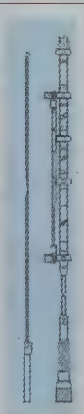
To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.

The Outpost Base Tripod Mount – A convenient way to use mobile antennas in BASE or PORTABLE applications. The large (36"x3") fold out feet form a large capacitor with the earth resulting in greatly improved efficiency. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds with no holes, no concrete required. Mount: 3/8" x 24 thread.

See Page 19 in the Price Guide for listing of all OUTbackers and Accessories

ICOM

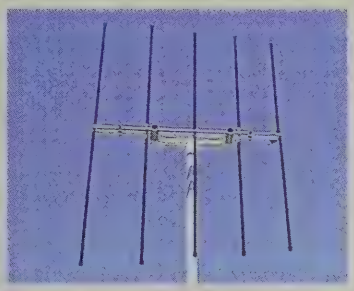
HF/50 MHz Five-Band Antenna



AH-703 – Designed for convenient portable operation when using ICOM's IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and has a 20 Watt power capacity. The bands are covered by simply changing the supplied coils. The base terminates in a PL-259 connector which requires a PO-style mount. Dim: 4.6 ft. high; 12 oz.... **$199.99**

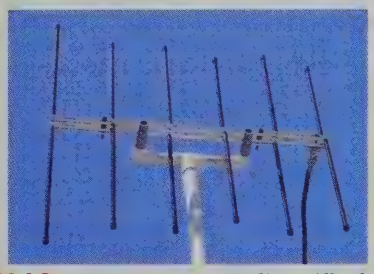
ELK ANTENNAS

Log Periodics – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



2M/440-L5 2M/440 MHz Log Periodic – Dual band operation without a duplexer, and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, black anodized aluminum elements and stainless hardware. **144-148 MHz**; 5 elements; 6.8dbd gain / **430-450 MHz**; 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lbs..... **$98.99**

440-L8 440 MHz Log Periodic – The latest model with increased gain and wide bandwidth. It's really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. **420-450 MHz**; 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz.... **$89.99**



220-L6 220 MHz Log periodic – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. 222-225 MHz; 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs..... **$89.99**

ELK BAG Canvas Carrying Bag – For convenient transporting of all ELK antennas ... **$24.99**

Silver-teflon® connectors on all models

Arrow Antenna

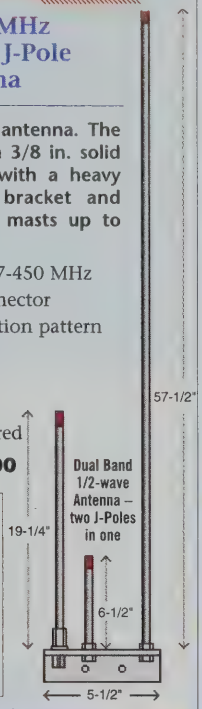
146/440 MHz Dual Band J-Pole Antenna

This a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

OSJ-146/440... $39.00

Mounts just about anywhere: in attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.



LEO Satellite Antenna

146/437-10 – KK5YY working thru a satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. It's engineered to provide maximum gain and efficiency within a small size and weight. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip on the rear The (3) VHF and (7) UHF elements are strong and lightweight aluminum arrow shafts, plastic tipped for safety. Gamma matched system with BNC connectors for each band **$73.00**

146/437-10BP – Split boom model... **$79.00**

10W DUPLEXER – Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector **$59.00**

DUPLEXER SMA – w/ SMA connector **$64.00**

Goliath Tri-Magnet Mount

336S – Has (3) Super Strong 5-inch magnets bolted to a 1/4 in. thick triangular mount. SO-239 antenna mount. Comes with 17 ft. of coaxial cable and PL-259 connector.

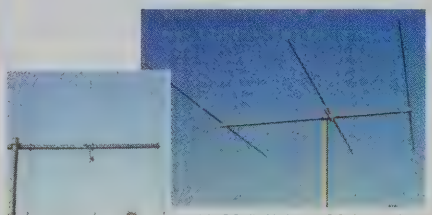
336T – Same as 336S except has a 3/8" x 24 stud mount instead of an SO-239.

Each model ... **$39.99**

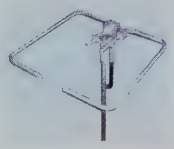
MFJ

336T

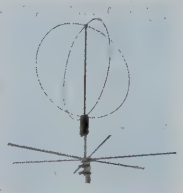
High Performance Yagis – The standard, combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. Big gain and clean patterns for long-haul, tropo and EME. The rugged, waterproof driven element module uses an efficient T-match with 4:1 balun and SNS connectors that are O-ring sealed to a CNC machined block with internal connections encapsulated in silicone gel and a type "N" connector with a beryllium copper, gold-plated center pin. Models for 6M, 2M, 222, 432/440 MHz, 1.2 GHz.


2M3SS (left) / 6M3SS (above)

Starter Series Yagis – Low cost, medium performance antennas for your first venture into VHF and UHF bands. Tailored for compact size and portability. Great for field day, vacations, mountain topping, fox hunts, DXpeditions. Each antenna breaks down to no more that 40 in. long, making it a natural for trips. Perfect for deed restricted areas where windload and overall appearance must be kept to a minimum. Uses 3/16" dia. rod aluminum insulated elements, a driven element Gamma Match feed with no balun and a single heavy duty mounting cradle with strainless hardware. Models for 6M, 2M, 222 and 432 MHz.



HO Loops – At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omni-directional **HO-Loop** to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna, with contacts up to 200 miles not uncommon. Rugged tuning and 50Ω matching system; stacking kit/harness available. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW when stacked. Models for 6M, 2M, 222 and 440 MHz.



Eggbeaters – Produces smooth omnidirectional Horizontal/RHC polarity at the horizon. Perfect for satellite or SSB modes. Models for 2M & 432 MHz.

See Page 16 in the Price Guide and for more information go to: www.m2inc.com

Laird TECHNOLOGIES / ANTENEX

The Phantom® – The low profile, whipless design doesn't look like a regular antenna so it attracts less attention. Requires NMO-style mount.

TRABT-1420 VHF – Tunable 142-164 MHz, unity gain. Black, 3.3" tall x 1.5" dia. radome **$59.99**

TRAB-4303 UHF – Covers 430-450 MHz, 3 dB gain. Black 3.3"h x 3.5" dia. radome..... **$29.99**

BB-1443 VHF Wideband Antenna Base loaded 5/8-wave. Covers 144-174 MHz, 3dB gain, 49 in. tapered whip. Requires NMO mount. (Black)... **$39.99**

CWB-1443 VHF 5/8-Wave Broadband Self Tuning 144-156 MHz, 3dB gain, 47" tapered whip. (Black) **$49.99**

CWB-4405C UHF Wideband Collinear – Self Tuning 440-470 MHz, 5dB gain, 32" tapered whip. Requires NMO mount. (Black)..... **$49.99**

BB-1442N Broadband, 5/8-Wave No Ground Plane – Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip **$39.99**

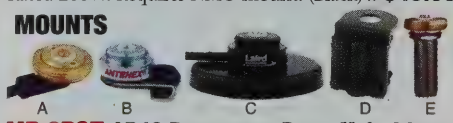
BB-4303 UHF 5/8-Wave – Covers 430-450 MHz, 3dB gain, 11.8" straight whip. Requires NMO mount. (Black)... **$34.99**

AB-FT Broadband 1/4-Wave – Tunable 118-896 MHz, unity gain, requires NMO mount **$16.99**

AB-SCANC Collinear Scanner Antenna – For 150/450/800 MHz **receive only**. Requires NMO mount. (Black) **$29.99**

CB-144/440C Collinear Dualband VHF/UHF Covers 144-148 & 440-450 MHz, 2/5dB, 36" whip. Rated 200W. Requires NMO mount. (Black) .. **$49.99**

MOUNTS



MB-8PST NMO Permanent Brass Hole Mount (A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' of RG-58A/U coax with PL-259 connector. **$16.99**

TM-8PST NMO Mini-Trunk Lid Mount (B) Chrome, includes 17' of coax with PL-259 ..... **$26.99**

GB-8PSTI NMO Magnetic Mount (C) – Strong, 90 lbs. pull. Mylar sole prevents scratches. Includes 12' RG-58A/U with Teflon® PL-259 connector.. **$34.99**

LBMB-9034 Mirror Mount L-Bracket (D) – Strong aluminum, black. For 3/4" hole mounts... **$10.99**

VTPM Plate Mount (E) – 1" thick, NMO... **$19.99**

Gold-Anodized Welded Yagis Internally matched, wide band, no tuning. End-of-boom N-type connector, internal transmission line feeds the driven element.

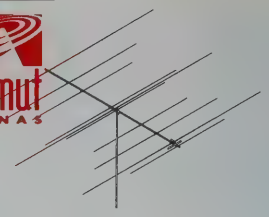
Y-1363 3-Element VHF – Covers 136-150 MHz, 7.1 dBd, 17 dBd F/B. Rated for 500W. Mounts on mast up to 2.5" diameter..... **$99.99**

Y-4303 3-Element UHF – Covers 430-450 MHz, 7.1 dBd gain, 17 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter..... **$99.99**

Y-1365 5-Element VHF – Covers 136-150 MHz, 9.2 dBd gain, 20 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter **$129.99**

Fiberglass Omnidirectional Base Antennas – for 144-148 and 440-450 MHz. White fiberglass with gold anodized sleeve & cap & N-female connector. For models, see Antenex on Page 5 in the Price Guide

butternut ANTENNAS



YAGI

SKYHAWK 3X10 Triband Yagi – A design breakthrough. 3-band, 10-element, 20/15/10M, rust free. Drop Ship **$1149.99**

HF-2V 80/40 Vertical – Optimal output on 80 and 40m because the full length of 32 ft. is used on both bands..... **$299.99**

VERTICALS

Take advantage of all HF bands from 80 to 6m with high efficiency - without losses through traps. Both antennas (HF-6V, HF-9V) are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top. Additional accessories may be found in the Price Guide under Butternut.

HF-6VX 6-Band Vertical..... **$389.99**

HF-9VX 9-Band Vertical..... **$449.99**

SOLARCON ANTENNAS A99

A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers the resonant frequency.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in..... **$79.99**

GPK-1 Groundplane Kit Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials..... **$59.99**

GM GLEN MARTIN ENGINEERING — SP Certified

FULL BODY CLIMBING HARNESSES

TowerMate LE™

FP-56222 – Two D-ring, 2.7 lbs., S-L.. **$85.99**
FP-56224 – Two D-ring, 2.8 lbs., L-XL . **85.99**
FP-56422 – Four D-ring, 3.0 lbs., S-L.... **99.99**
FP-56424 – Four D-ring, 3.2 lbs., L-XL. **99.99**

EagleTower LE™

FP-66611 – Six D-ring, 5.1 lbs., S **$246.99**
FP-66612 – Six D-ring, 5.2 lbs., M..... **246.99**
FP-66613 – Six D-ring, 5.3 lbs., L **246.99**
FP-66614 – Six D-ring, 5.4 lbs., XL.... **246.99**

All Glen Martin items are Drop Shipped.
See Pages 9 & 10 in the Price Guide for more Glen Martin products.

Miracle Antenna

MIRACLE WHIP DUCKER IL

Miracle Whip

All Band, Rig Mounted Tunable Whip

For QRP (5W) or SWL rigs – a completely self-contained, all-band 57 inch telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The variable auto transformer design operates effectively without a counterpoise as the continuously variable nature permits finding a good match using whatever ground paths are available ..... **MIA Miracle Whip $139.99**

Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of RX gain on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio. **MIA Ducker IL $139.99**

THE SMILEY ANTENNA CO.

HAND TUNED ANTENNAS for HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a PVC heat-shrink coating applied for strength and endurance. All have BNC connectors and rated for 50 Watts.

TS Thin Stick – 1/4-wave telescoping dual band antenna for 144 and 220 MHz bands..... **$16.99**

SS-II Super Stick II *(A)* – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **$19.99**

SS-II/COMBO Super Stick II Combo – Same as above, but includes a 2m stubby duck..... **$29.99**

5/8 SLD-2 5/8 **Slim Duck** *(B)* – 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long..... **$19.99**

5/8 SLD-2 COMBO 5/8 **Slim Duck Combo** – As above, but includes a 2m stubby duck..... **$29.99**

RD-2 Regular Duck *(C)* – For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are *impedance matched* for HTs..... **$15.99**

RDS-2 Stubby Duck *(D)* – Tuned, for 2m **$15.99**

SS-III Super Stick III – 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9 db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8¾" collapsed..... **$19.99**

SS-III/COMBO Super Stick III/Combo – As above, but includes a 220 MHz stubby duck..... **$29.99**

5/8 SLD-220 5/8 **Slim Duck** *(E)* – 220 MHz, 7db gain, flexible base loaded 9" antenna..... **$19.99**

5/8 SLD-220 COM 5/8 **Slim Duck Combo** Same as above, but includes a 220 MHz stubby duck antenna..... **$29.99**

RD-220 Reg. Duck *(F)* – 220 MHz, tuned **$15.99**

RDS-220 Stubby Duck *(G)* – As above... **$15.99**

SS-IV Super Stick IV *(H)* – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5¾" collapsed..... **$19.99**

SS-IV/COMBO Super Stick IV Combo – Same as above, plus has 440 MHz stubby duck..... **$29.99**

SL-440 Slimline *(I)* – 440 MHz, ¼-wv. flex **$15.99**

5/8 SLD-440 5/8 **Slim Duck** *(J)* – 440 MHz, 7db gain, flexible base loaded 5" antenna..... **$19.99**

5/8 SLD-440 COM 5/8 **Slim Duck Combo** As above, plus has a 440 MHz stubby **$29.99**

RDS-440 Stubby *(K)* – 440 MHz, tuned . **$15.99**

RDMD-440 Mini Duck *(L)* – As above.... **$15.99**

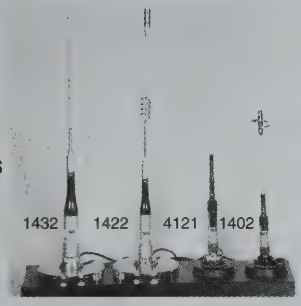
FLX 1/2 WAV-2M Flex-Coil *(M)* – 2M, 1/2-wave, 7-9dB gain, flexible base, 35" fully extended **$25.99**

270A *(N)* – Telescoping 2m/220/440 antenna. 1/4-wave (2m); 5/8-wave (220 MHz); 5/8 & 1/4-wave (440 MHz);. Also available with SMA. each **$19.99**

TAQ – 1/4-wave whip antenna, specify for 2M, 220 or 440 MHz ..... each **$10.99**

MFJ RUFFRIDER™ Mobile Antennas

(The mounts shown are not included)



Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate power at the horizon.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

1402 Junior – 16.5 in., handles 100W. Unity gain on 2M, 3dB gain 440 MHz. No fold-over .. **$34.99**

1412 High Power – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz **$49.99**

1422 High Gain – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz **$49.99**

1432 Hyper Gain – 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W ... **$69.99**

1436 Triple Threat – 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W..... **$79.99**

HT RANGE EXTENDERS

1714 Long Ranger™ 2M Halfwave BNC – This end-fed 1/2-wave is hard to beat. It outperforms a 5/8 wave because it does not need a ground plane. At 40 in. extended, it's shorter, lighter, has more gain and places less stress on the antenna connector. When collapsed to 10.5 in., it performs equal to a regular rubber duck.... **$16.99**

1712 Dual Bander™ 2M/440 MHz BNC – 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. Dim: 7.25 in. collapsed, 19 in. extended **$14.99**

1712S – Same as 1712 w/SMA connector **$14.99**

1710 Pocket Linear™ 3/8 Wave, 2M BNC – Carry in your pocket like a ballpoint pen. When using your rubber duck, on the fringe & noisy, put on the Pocket Linear, extend to 24.5 & carry on your QSO. Only 5.25 in. collapsed. Pocket clip..... **$9.99**

Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable.

Order **310** with BNC connector or **310S** with SMA ..... each **$19.99**

Midget Duck for 2M/440 MHz

An amazing antenna for its size. Less than 1 inch tall, it's great for travelling and monitoring and doesn't get in the way. Also works well for signals at 1200 MHz.

Order **1719** with BNC connector or **1719S** with SMA..... each **$19.99**

More HT Antennas on Comet/Maldol, Diamond, Larsen and Premier pages

CRANK IT UP!

MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.3 to 22 sq. ft. in 50mph winds, depending on the model.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
MA-40	40'/21'6"	2	242	3"sq./4.5"	3'x3'x4'6"	$1299.99
MA-550*	55'/22'1"	3	435	3"sq./6"	3.5'x3.5'x5'	$2019.99
MA-770*	71'/22'10"	4	645	3"sq./8"	5'x5'x5'6"	$3329.99
MA-850*	85'/23'6"	5	943	3"sq./10"	5'x5'x6'	$5159.99

*Also available as tower/heavy-duty motor drive (positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. 770 and 850 require MAB or MARB series base.

FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are lightweight, freestanding, and allow up to 50 sq. ft. of antenna in 50mph winds.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TMM-433SS	33'/11'4"	4	315	10"/18"	4'x4'x4'6"	$1759.99
TMM-433HD*	33'/11'4"	4	400	12.5"/21.5"	4'x4'x5'	$2119.99
TMM-541SS*	41'/12'	5	430	10"/21.625"	4'x4'x5'	$2299.99

*Will accept the MDP-750 motor drive, factory installed only.

FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TX-438	38'/21'6"	2	355	12.5"/15"	5'x5'x5'	$1649.99
TX-455	55'/21'6"	3	670	12.5"/18"	5'x5'x6'	$2269.99
TX-472*	72'/22'8"	4	1040	12.5"/21.625"	5'x5'x6'6"	$3729.99
TX-489MDPL**	89'/23'4"	5	1800	12.5"/25.625"	5'x5'x8'	$9729.99

*Also available as a tower/heavy-duty motor drive (with positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. **Comes with heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control.

FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
HDX-538	38'/21'6"	2	600	15"/18"	5'x5'x6'	$1959.99
HDX-555	55'/21'6"	3	870	15"/21.625"	5'x5'x6'6"	$3419.99
HDX-572MDPL*	72'/22'8"	4	1600	15"/25.625"	4'x4'x8'	$8919.99
HDX-589MDPL*	89'/23'4"	5	2440	15"/30.625"	5'x5'x8'	$11669.99
HDX-5106MDPL*	106'/24'8"	6	3805	15"/37.125"	5'x5'x9'	$24529.99

*Includes heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control (included with 589MDPL and 5106MDPL) or RMC-1000 remote control.

US TOWER CORPORATION

Headquarters
1099 W. Ropes Ave.
Woodlake, CA 93286
(559) 564-6000

Second Location
702 E. North St.
Lincoln, KS 67455
(785) 524-9966
www.ustower.com

US Tower accessories are listed on Page 21 in the Price Guide.

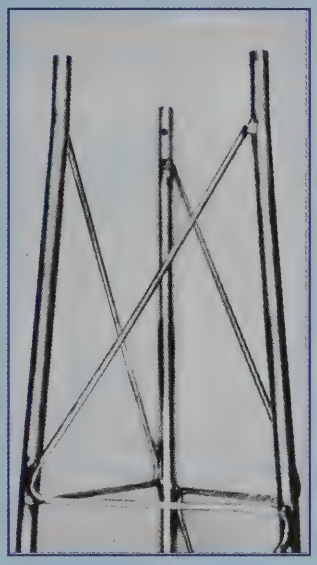
All towers are drop shipped directly from the factory. Additional freight charges apply. Ask for details.

UNIVERSAL TOWERS

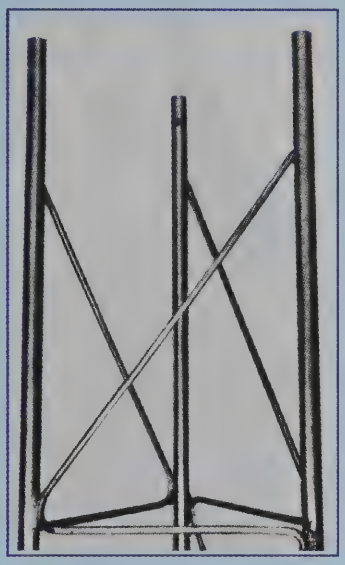
ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE • RUGGED STRENGTH
for AMATEUR RADIO • TV • FM • INDUSTRIAL • FIRE • POLICE • MARINE

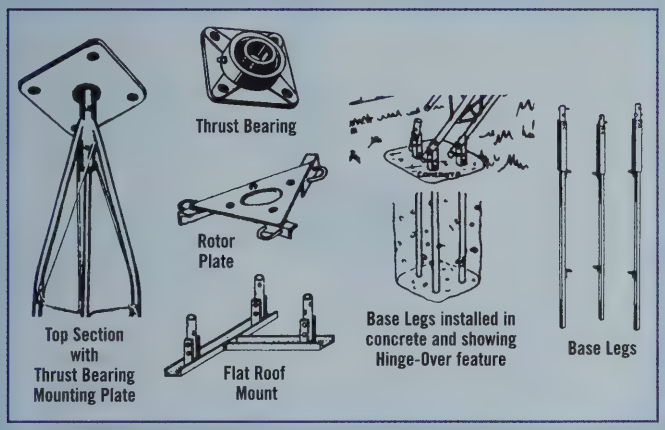
TOP SECTION

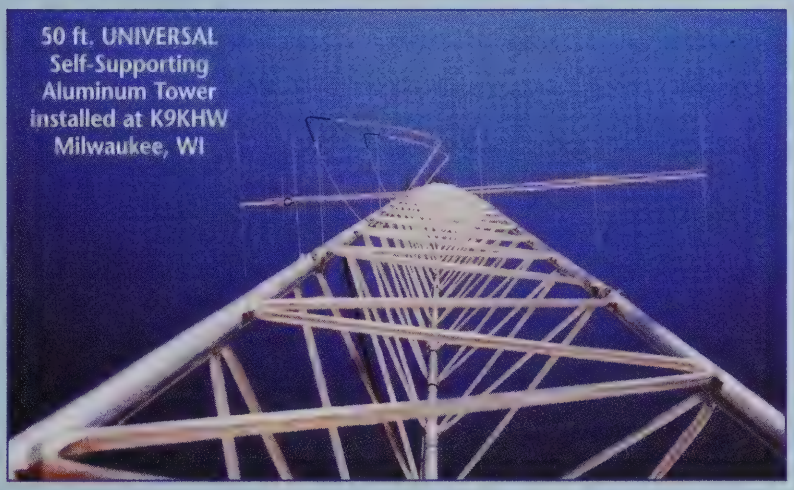


TAPER SECTION



STRAIGHT SECTION





SECTIONS

Universal Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available 11, 14, 18, 22, 26 or 30 inches wide.

CHOOSING THE PROPER TOWER

(1) Determine the projected surface area of the antenna that you intend to mount. This figure is often in the literature that comes with the antenna. Otherwise: standard TV antennas are about 2 sq. ft. in area; 6/10 meter beams and large TV antennas are 5 sq. ft.; 20/40 meter beams are 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays are 18 to 26 sq. ft. Also, when using a rotator add 1 sq. ft. plus 1 sq. ft. for the mast to whatever size antenna you intend to use.

(2) Decide on the tower height that you want. Universal Towers are made in 10 foot sections to give you many possible sizes and the ability to add sections later.

(3) Choose the tower model based on height and windload. The model number is merely the wind loading followed by the height. For example, if your antenna calculation resulted in a tower designed for 5 sq. ft. and you wish it to be 50 ft. high, the model you want is a **5-50**.

See Page 22 in the Price Guide for Configurations and Prices.

No Guy Wires!

Self-Supporting at the Rated Load

BEFORE BUYING A TOWER

Consider the advantages of –

ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL offers 10' sections or complete towers ranging from 30 to 100' with a choice of wind load ratings and accessories.

All towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

hy-gain ROTATORS

. . . the first choice of hams around the world!

The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in..... **$539.99**

Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	**7.5 square feet**
Turning Power (in lbs.)	800
Brake Power (in lbs.)	**5000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Dual race/98 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	**2800 ft/lbs.**

The TAILTWISTER SERIES II

is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **$619.99**
T-2XD with DCU-1 control **$1029.99**

TAILTWISTER Specifications

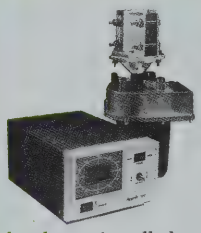
Wind Load cap.(inside tower)	20 square feet
Wind Load (w/ mast adapter)	**10 square feet**
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	**9000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Triple race/138 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	**3400 ft/lbs.**

THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in **$899.99**

HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	**7.5 square feet**
Turning Power (in lbs.)	800
Brake Power (in lbs.)	**5000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Dual race/96 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	**2800 foot/lbs.**



The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility, Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3" . **$1349.99**

HDR-300A Specifications

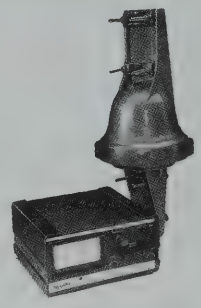
Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	**N/A**
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	**7500**
Brake Construction	Solenoid operated locking
Bearing Assembly	**Bronze sleeve w/rollers**
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	**7** (Belden 8448 or 9405)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	**5000 ft/lbs.**

The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support **$289.99**

AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	**1.5 square feet**
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	**450**
Brake Construction	Disc Brake
Ball Bearing Assembly	**Dual race/12 bearings**
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	**5** (Belden 8448 or 9405)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	**300 ft/lbs.**

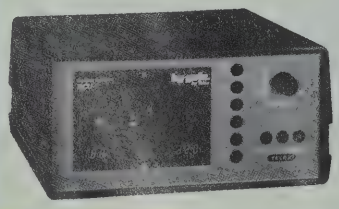


The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearing race gives proven support. Diecast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support ... **$389.99**

CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	**5.0 square feet**
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	**800**
Brake Construction	Disc Brake
Ball Bearing Assembly	**Dual race/48 bearings**
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	**1200 ft/lbs.**



The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 control, compatible with many logging and contest programs..... **$699.99**

Rotator Accessories

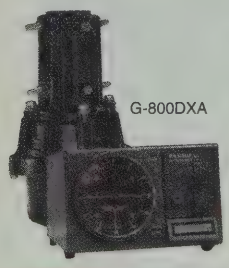
MSHD Heavy duty lower mast support for Ham-IV/V, T-2X/XD..... **$99.99**
MSLD Lower mast support for CD-45-II, AR-40..... **$39.99**
TSP-1 Tower spacer plate..... **$34.99**

Belden Rotator Cable

8448 Standard duty, 8-wire
9405 Heavy duty, 8-wire
8484 Standard duty, 4-wire

See BELDEN in the Price Guide, page 5

YAESU



ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

G-2800DXA – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875–2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375"h; 13.2 lbs..... **$1139.99**

G-1000DXA – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5"dia. x 12.5"h; 7.7 lbs..... **$519.99**

G-450A – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable.
Dim: 7.5"dia. x 12.5"h; 7 lbs **$259.99**

G-5500 – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5–2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25–1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5"h; 20 lbs..... **$629.99**

G-550 – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5–2.5 in. mast size; 67 second 180° elevation; 1.25–1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5"h; 7.3 lbs..... **$299.99**

G-800DXA – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. 7.5" dia. x 12.5"h; 7.5 lbs..... **$429.99**

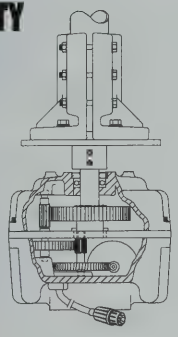
G-800SA – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7.5 lbs..... **$339.99**

ACCESSORIES

GC-038 – Mast clamp..... **$39.99**
GC-048 – Mast clamp for G-2800DXA..... **49.99**
GS-050 – 50mm thrust bearing (1.25"-2") **39.99**
GS-065 – 65mm thrust bearing (1.5"-2.5") **54.99**
GS-232B – Interface for DXA rotators.... **589.99**
C-1000 – GS-232B cable for SDX's/5500... **34.99**
GS-680U – Universal, self adjust. bearing **109.99**
SEP KIT Separation kit for G-5500 ..... **29.99**

K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna

M² SUPER DUTY Rotator



OR-2800PDC Rotator
The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display.
Specifications: 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75–3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree travel resolution; 110/ 220V AC, 50/60Hz input; Requires two 4-wire runs of rotor cable. Dim: 15.75"h total, 9.75"h rotor; 42 lbs..... **$1598.99**

Channel Master®

9521A
Light Duty Rotator

Drive Unit: Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

Control Unit: Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy..... **$99.99**

ECG®

U-105 Light-duty Rotator
Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows direction..... **$69.99**
Control Unit: 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator.
Dim: 7"w x 5.875"d x 2.375"h
Rotator Unit: 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

U-106 Light-duty Rotator – Similar to U-105 but with Presets and Infrared remote .. **$89.99**

TB-105 Thrust Bearing – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing. **$18.99**

EASYUP

"the Solution for Mounting Smaller Antennas"

Easy-Ups are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Legs extend to any rafter spacing. Completely assembled and includes a pitch pad kit and lag screws.

EZ 48-3ABX – 3 ft. high, 8.5 lbs..... **$39.99**

EZ 48-5ABX – 5 ft. high, 12 lbs..... **$59.99**

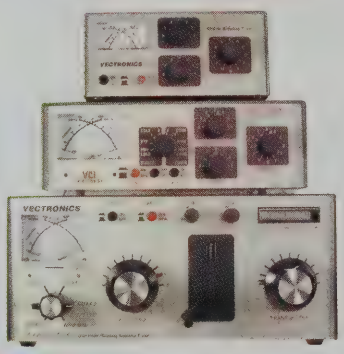
EZ 5-16 – 5 ft. 16 gauge steel mast*... **$12.99**
*Store Pick-up only

EZ 29-24S HD Double-strap Chimney Mount Includes two "Y" type mounting brackets and 24 ft. of stainless steel strap **$22.99**

EZ 30-24 – Deluxe wall mount with third support leg **$29.99**

EZ 31 – H.D adjustable eave mount....**$29.99**

VECTRONICS



VC-300M Mobile Tuner (top) – Compact, lightweight for mobile or base. Tunes mobile whips, verticals, dipoles, inverted Vs, beams – anything fed by coaxial cable. Covers 1.8–30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR.
Dim: 7.25"w x 3.5"h x 8.75"d; 2.5 lbs..... **$129.99**

VC-300DLP (middle) – Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load.
Dim: 10.25"w x 9.5"d x 3.5"h; 3.4 lbs **$169.99**

HFT-1500 (bottom) – Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position antenna switch and 4:1 balun.
Dim: 12-1/2"w x 5-1/2"h x 12"d; 10 lbs **$439.99**

Stop tuning, Start talking!

SGC SMARTUNER® Automatic Antenna Couplers

SGC Smartuners™ Deliver greater impedance matching, more tuning steps and more antenna choices than any other antenna coupler on the market. Get frequency agility and precision tuning. They are independently intelligent, matching ANY HF transceiver and ANY antenna. Smartuners are microprocessor controlled; analyzing the conditions of your antenna and automatically adjusting for the best match. They also remember each match, cutting retuning time to under 10 milliseconds when changing frequencies. Smartuners are available for power levels from 1.5 to 500 Watts and frequency ranges from 1.8 to 60 MHz. They provide all purpose tuning ideal for base, mobile, portable, marine or aviation. Any budget, any installation.

54-14 SG-230 Original Smartuner™ – 1.8-30 MHz; 200W. 16.2"l x 12.2"w x 3.2"h; 8 lbs..... **$499.99**

54-15 SG-235 High Power – 1.8 to 30 MHz; 500W; 16.2"l x 12.2"w x 3.2"h; 8 lbs **$1079.99**

54-18 SG-237 General Purpose Smartuner™ – 1.8 to 60 MHz; 100W; 9"l x 7"w x 1.5"h; 2 lbs **$299.99**

54-22 SG-239 Budget Smartuner™ – 1.8 to 30 MHz; 200W; 7.5"l x 6"w x 1.9"h; 2 lbs **$195.99**

54-25 MAC-200 Master Antenna Controller Select the right antenna, for the right band, at the right time with the MAC-200. The Master Antenna Controller operates as your base station control center, eliminating complicated switching and tuning. With two built-in computers, the MAC-200 can select and tune up to 5 antennas automatically, quickly and accurately. Built-in memories fine tune to minimum SWR with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10 milliseconds. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well-known Smartuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system. 1.8-60 MHz; 1.5-200W; 168 memories; Pi configuration; 230mA average current; <2 second random set time. Dim 8.5"l x 6.5"w x 3"h; 5 lbs **$265.99**

MFJ ANTENNA TUNERS

9982 – Continuous Carrier™ Antenna Tuner – Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak and average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels. The high-current, 1000 pF and 500 pF air variable capacitors give very high efficiency on 160/80M and extremely wide matching range on 10/12/15M at 2500 Watts. Dim: 13.75"w x7"h x16"d; 15 lbs..... **$649.99**

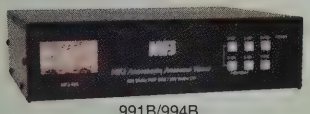
998 Intellituner™ – Covers 1.8 to 30 MHz, rated at 1500W SSB/CW. Ultra-fast automatic tuning matches impedance from 12 to 1600Ω using MFJ's exclusive *IntelliTune™*, *AdaptiveSearch™* and *InstantRecall™* algorithms, and over 20,000 *VirtualAntenna™* memories. Key your transmitter and *InstantRecall™* determines whether that frequency has been used before. If so, tuning is instantaneous. If not, an algorithm measures the impedance, selects the necessary components, and then fine-tunes the SWR. If the antenna impedance is outside the tuner's measurement range, *Adaptive Search™* measures the frequency and determines relevant component values for fast tuning. MFJ's *Amplifier Bypass Control™* (requires interface cable), provides safe tuning. On initiation, any in-line amplifier is bypassed. Next, a low-power CW tuning carrier from your transceiver is keyed. When tuning is complete, your transceiver reverts to its prior power and mode, and re-enables the amplifier. If a match better than a pre-set amplifier SWR trip point cannot be found, the amplifier stays bypassed. A Cross-Needle SWR/Wattmeter displays 300/60W or 3000/600W forward and reflected full-scale power ranges. A two-line, 16-character backlit LCD meter displays SWR, forward/reflected power, frequency, antenna selected, an autoranging bargraph power indication, and the final matching inductor and capacitor values. A memory system provides four antenna selections for each of the two switchable rear panel antenna connectors. A rear binding post for end-fed long wire antennas, balanced line antennas require an external 1.5kW 4:1 balun (MFJ-912). Requires 10-15VDC @ 1.3 amps. Dim: 13"w x 4"h x15"d; 9 lbs..... **$649.99**

MFJ ANTENNA TUNERS

902

989D

993B


991B/994B

All MFJ products come with a *No Matter What*™ One-year Limited Warranty.
Not including kits, books or software.

MFJ...
the World Leader in Amateur Radio Accessories

902 Tiny Travel Tuner – Only 4.5"w x 2.25"h x 3"d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter **$99.99**

945E Mobile Tuner – Covers 1.8–30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8"w x 2"h x 6"d. **$119.99**

941E Versa Tuner II – Covers 1.8–30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625"w x 2.875"h x 7"d **$129.99**

934 Antenna Tuner/Artificial Ground – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8–30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625"w x 3.5"h x 7"d **$199.99**

948 – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter **$149.99**

949E Deluxe Versa Tuner II – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune*™ allows off-air tune-up into a built-in dummy load. Dim: 10.625"w x 2.875"h x 7"d..... **$169.99**

969 Deluxe Versa Tuner II – Covers 160–6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune*™ allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5"w x 3.875"h x 9.5"d..... **$199.99**

962D Versa Tuner III – Covers 1.8–30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.5"w x 3.9"h x 15"d..... **$279.99**

986 Differential-T Tuner™ – Covers 1.8–30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75"w x 4.5"h x 15"d **$319.99**

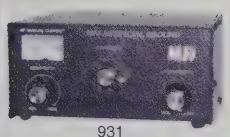
989D Versa Tuner V – Covers 1.8–30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 10.75"w x 4.5"h x 15"d. **$349.99**

993B IntelliTuner™ 300W Auto Tuner – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operation. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10"w x 2.75"h x 9"d **$249.99**

991B IntelliTuner™ 150W Auto Tuner – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms..... **$209.99**

994B IntelliTuner™ 600W Auto Tuner – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed **$339.99**

974HB


931

974HB Balanced Line Tuner – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12–2000 ohms from 1.8–54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80–10 meters with sperate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5"w x 6"h x 8"d.... **$199.99**

974B Balanced Line Antenna Tuner – Same as 974HB but 3.5–54 MHz (no 1.8 MHz) **$179.99**

931 Artificial Ground – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5"w x 3.5"h x 7"d. **Not for coax fed antennas**. **$109.99**

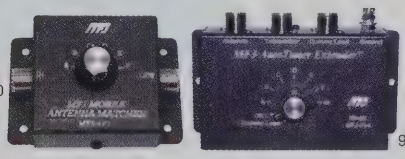
903
906

906 6 Meter Antenna Tuner/Meter – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8"w x 2.5"h x 3"d **$99.99**

903 6 Meter Antenna Tuner – Similar to 906. Less meter and bypass switch **$69.99**

921 144/220 MHz Antenna Tuner/Meter – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8"w x 2.5"h x 3"d **$89.99**

924 440 MHz Antenna Tuner/Meter – Similar to 921 but 440 MHz band only..... **$89.99**


910
914

910 Mobile Antenna Matcher – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5"w x 2.5"h x 1.5"d ... **$29.99**

914 Auto Tuner Extender – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position **$79.99**

LDG ELECTRONICS

The #1 Line of Autotuners!

AT-7000

Ideal Tuner for IC-7000 and other ICOMs

It covers all frequencies from 1.8-54 MHz (including 6 meters), and will automatically match your antenna in a flash.

Requires just 0.1W for operation, but will handle up to 125W (100W on 6 meters), making it suitable for everything from QRP (IC-703PLUS) to a typical 100W ICOM transceiver.

Tune with the AT-7000 or use your radio. Includes over 2,000 memories, uses latching relays, tuning range is 4–800Ω, powered by your radio. Includes ICOM interface cable. Note: The IC-7000 shown on top of the AT-7000 is not included. Dim: 6.5"w x 1.5"h x 6.5"d; 1.5 lbs **$169.99**

AT-1000Pro

HF/6M Automatic Antenna Tuner

Building on the success its flagship AT-1000, LDG Electronics has refined and expanded its 1KW tuner. The new AT-1000Pro has an Auto mode that will automatically start a tuning cycle when the SWR exceeds a preset limit. There are provisions for two antennas and for each antenna there are 2,000 memories that store tuning parameters for almost instantaneous tuning when you transmit on or near a frequency you've used before. *Just key and it tunes!*

- Continuous coverage: 1.8 to 54 MHz (includes 6 meters).
- Power Rating: HF (1.8–30 MHz): 1000W SSB, 750W CW, 500W Digital (RTTY, Packet, etc.); 6 meters: 250W any mode.
- Operates at any power level between 5–1000W peak RF input.
- Relay protection software prevents tuning at greater than 125W and greater than 75W into a 3:1 SWR load.
- Cross-Needle SWR/Wattmeter with selectable 100W/1000W ranges.
- Soft touch buttons for easy operation.
- Tuning time 4 seconds, or under 0.2 seconds when operated near a frequency with stored parameters.
- Tunes just about any antenna between 6 to 1000Ω (approximately 10:1 SWR, 3:1 on 6 meters).
- Supplied with 6 ft. power and ICOM/YAESU interface cables.
- Requires user supplied power, 11–15V DC @ 1A.
- Dim: 9.5"w x 3.5"h x 13"d
- Weight: 5.2 lbs
- **$549.99**

AT-100Pro

Automatic Antenna Tuner

This desktop tuner covers all frequencies from 1.8 to 54 MHz (including 6 meters), and will automatically match your antenna in no time. It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100Pro requires just 1W for full operation, but will handle up to 125W (100W on 6 meters). The AT-100Pro includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as you use them.

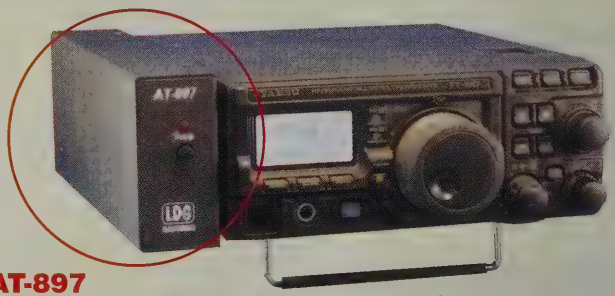
Dim: 7.5"w x 5.5"h x 2.0"d; 1.5 lbs..... **$199.99**

AT-200Pro

Designed for today's 200W Class Transceivers

The AT-200Pro features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz and 100W on 54 MHz (6 meters).

Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. All cables included. Dim: 8.5"w x 2.0"h x 6"d; 2 lbs **$229.99**



AT-897

Automatic Antenna Tuner for FT-897

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897 mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897 takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier. The FT-897 shown attached to the tuner is not included. Dim: 1.5"w x 3.25"h x 11.5"d; 2 lbs **$199.99**

LDG Autotuners include All Cables Ready to Go!

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Autotuners & Accessories

Z-11Pro

The original portable Z-11 was one of LDG's most popular tuners, accompanying adventurous hams to their backyards or to the ends of the earth.

Now meet the **Z-11Pro**, everything you always wanted in a small, portable tuner designed from the ground up for battery operation.

Only 5 x 7.7 x 1.5 in. and weighing only 1.5 pounds, it handles 0.1 to 125 watts (100W on 6 meters), making it ideal for both QRP and standard 100 watt transceivers from 160 - 6 meters.

With **8,000 memories** in LDG's exclusive "**3-D Memory**" array, the Z-11Pro uses LDG's state-of-the-art processor-controlled Switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line **$179.99**

Z-100

Designed from the ground up to provide the 100W power handling you asked for in a small, lightweight package, perfect for portable as well as sitting on your desk in the shack!

The Z-100 will tune with 0.1 to 125W (50W on 6 meters), making it an excellent choice for almost any radio or operating style. Backpackers and QRP operators will appreciate the latching relays. Power can be removed from the tuner once you have tuned. Additionally, when the tuner is not tuning, it draws nearly zero amps.

Additionally, the Z-100 features 200 fast memories which will decrease tuning time up to 95%! Dim: 5.5"w x 1.5"h x 5.25"d; 14 oz..... **$149.99**

LDG Baluns – Designed to allow easy interface of ladder line antennas and long wires to the LDG line of Automatic Antenna Tuners. It may be used with any of your long, random, or ladder line antenna projects. Usable with tuners other than LDG. Covers 1.8 to 30 MHz, up to 200W.

Dim: 2.5"w x 5"h x 1.25"d, 6 oz.

RBA-1:1 1:1 Current balun..... **$30.99**
RBA-4:1 4:1 Voltage balun **$30.99**

FT-METER

Multi-Function Meter for Yaesu's FT-857 & FT-897

The FT-857 and FT-897 are wonders of compactness. These do-anything, go-anywhere transceivers are being used more and more and users really appreciate LDG's extra metering capability.

The **FT-Meter** presents a highly readable 2.5 inch meter face with calibrated scales for Signal strength and Discriminator reading on receive, Power output, SWR, Modulation, ALC action and Supply voltage on transmit. LED back-illuminated in cool, high-visibility blue, easily visible from anywhere on your desk or dash. For illumination it requires an external 12V DC source. Rear on/off switch for the light and calibration and brightness adjustments. Fully assembled and ready to plug into the radio. Dim: 3.6"w x 3"h x 2.6"d; 0.5 lbs..... **$49.99**

DM-7800

Dual Meter System for the ICOM IC-7800

The advanced virtual LCD meters on ICOM's IC-7800 transceiver do a great job, but sometimes a real analog meter is desired.

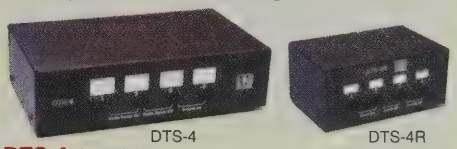
LDG's DM-7800 Dual Meter system provides two 4.5 in. meters, one for the MAIN receiver and one for the SUB receiver. Seven individual scales indicate S-Meter, Id, Po, SWR, Comp, Vd and ALC. The IC-7800 menu lets you select functions for each meter. Additionally, the DM-7800 and the virtual meters on the radio can work together. For example, you can display SWR on the radio's meter and power output on the DM-7800; on receive, the S-meter reading is indicated.

The lush meter faces are back-illuminated LED in cool, high-visibility blue and draw only 20 to 60 mA depending on the brightness setting. Requires an external 12V DC @ 100 mA source (not supplied). There are separate calibration adjustments for MAIN and SUB, and a brightness control on the back. The textured gray case is a great match for the IC-7800. Includes a 3 ft. long interconnecting cable. Dim: 9.7"w x 4.0"h x 4.0"d; 1 lb **$179.99**

DTS-SERIES

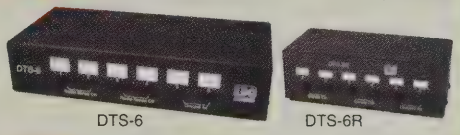
Antenna Switches for Convenience & Safety

Tired of that tangled mess of coax and pigtails in your shack? Always worrying about whether you set the ground switch on your antenna before you left your shack? LDG's new DTS Series antenna switches are for you. Instantly switch your rig between 4 to 6 antennas with the press of a button. Safety features prevent "hot switching." Auto-grounding when you shut your rig down. Purchase the additional remote control and put the DTS series switch anywhere indoors and operate it from your desk. They cover 1.8-54 MHz and handle up to 1500W of RF power on HF (250W on 6M), and can be used with any coax-fed antenna. Requires 11-15VDC.



DTS-4 DTS-4R

DTS-4 4-position,
Dim: 7.5"w x 2.5"h x 4.5"d; 1 lb .. **$79.99**
DTS-4R Remote control for DTS-4..... **$39.99**



DTS-6 DTS-6R

DTS-6 6-position,
Dim: 9.5"w x 2.5"h x 5"d; 1 lb **$99.99**
DTS-6R Remote Control for DTS-6..... **$49.99**

RCA-14

Transceiver Breakout Box

A convenient breakout box for the accessory jacks on most popular transceivers. It comes with cables with the right DIN plugs, and all the outputs are standard RCA jacks. You simply plug the RCA-14 into you radio's accessory jacks, and all your ports are right there at your fingertips; just plug and play, one function or all or them, makes no difference. And you can change things around as often as you like; it's as simple as swapping out an RCA plug.

The RCA-14 comes with a DIN-13 cable, a mini DIN-6 and a mini DIN-8. The DIN-13 cable breaks out the functions to RCA jacks 1-13, while the mini DIN-6 goes to to RCA 1-6, and the mini DIN-8 goes to RCA 7-14. You can use the DIN-13 or the mini DIN-6 and/or 8, depending on your radio.

The RCA-14 is compatible with: ICOM 703, 706, 718, 746, 756, 7000 and 7800; YAESU 817, 857, 897 and 840; KENWOOD 480, 570, 2000; TEN-TEC Orion. Includes 5 interface cables for the most popular radios. Dim: 6.5"w x 3"d x 3"d;1 lb. ... **$59.99**

LDG ELECTRONICS **Two-Year Warranty**

LDG was the first company with a "No Questions Asked" two-year Warranty on ALL of their products, the first company to include All Cables with their autotuners, and the first company with 3-D Memory in their autotuners. www.ldgelectronics.com

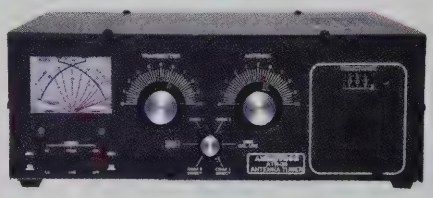
ICOM ANTENNA TUNERS

AH-4 Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers; just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7"w x 2.7"h x 9"d **$259.99**

AT-180 Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC.
Dim: 6.5"w x 2.3"h x 8.9"d; 5.3 lbs **$369.99**

AH-2B Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long **$349.99**

AMERITRON



LEGAL LIMIT ANTENNA TUNER

ATR-30 – Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160M. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/Wattmeter. Includes: 3-core choke balun; 6-position antenna switch; 6:1 vernier reduction drives, crank with turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25"w x 5.6"h x 17.5"d..... **$559.99**

ATR-20 Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters.
Dim: 13.5"w x 5.5"h x 13.5"d..... **$429.99**

PALSTAR

ANTENNA TUNERS

AT-AUTO Automatic Antenna Tuner – 1500W single tone, 160-10M; High-speed processor controlled stepper motors, 1-30 sec. tuning; Large 2-line display for antenna feed status, frequency, and memory; Large plate 5kV variable capacitors; Roller inductor; Cross-Needle Peak/Peak-Hold metering.
Dim: 12.5"w x 5.5"h x 16"d, 25 lbs **$1295.99**

For more Palstar models see the Price Guide

AT-5K – 3500W single tone continuous, 160-10M; Balanced OUTPUT, 5kW balun at the INPUT; Custom large plate variable capacitors; 10A, 7 kV roller inductor;
Dim: 16"w x 8"h x 18"d, 30 lbs **$1195.99**

For more detailed info go to: www.palstar.com

AT-1500DT – 1500W PEP, 160–10M; Tunes both balanced and unbalanced lines; Ceramic body roller inductor; 4:1 balun; Cross-Needle Peak/Peak-Hold metering; 6 position ant. switch; Powdercoat.
Dim: 12.6"w x 4.5"h x 12"d, 12 lbs..... **$495.99**

AT-1KP – 1200W SSB, 160–6M; Differential capacitor tuning; Roller inductor; 4:1 balun;
Dim: 10.5w x 4.5"h x 11"d, 8 lbs.....**$429.99**

W4RT Electronics

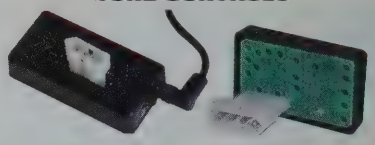
MOTORIZED ANTENNA CONTROLLERS

Antenna BOSS – For **Yaesu** Radios. Makes essentially any motorized antenna "look like" an ATAS-100/120 to the FT-100/D, 847, 857, & 897 radios, allowing use of the radio's [TUNE] button for automatic tuning (6 – 40 meters). Works with 6-12 VDC motors drawing less than 750 mA, no special sensors in antenna required, no programming or computer required. BOSS works to full legal limit as well as with antennas having a shunt coil. The radio powers both the antenna motor and the BOSS..... **$169.99**

Antenna BOSS II – For **Icom, Yaesu, & Kenwood** Radios. Allows any 6 to 160 meter motorized antenna to interface with Icom radios that work with the AH-4 tuner; IC-706, MKII, MKIIG, and 7000. Works with 12 VDC motors drawing <750 mA, no special sensors in antenna required, and no programming or computer required. Works with radio's [TUNE] button. Measures frequency and SWR. Advanced algorithms provide excellent tuning and mitigate motor overshoot by using dynamic braking and reducing motor speed during final antenna adjustment. Includes cable for connection to the IC-706 series radios **$169.99**

The Better RF Company

TUNE CONTROLS

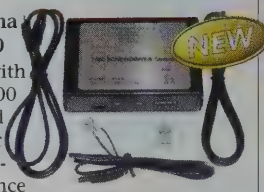


7000 TUNE CONTROL 706 TUNE CONTROL

Tune up Control for IC-706/718 – Plugs into the Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No switching to AM or RTTY or holding the PTT. Works 160–6M (not 6M with the original IC-706)..... **706TUNECONT $32.99**

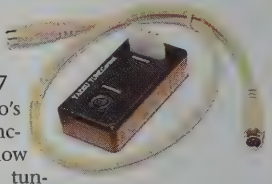
Tune up Control for the IC-7000 – Activates the [TUNE/CALL] button on your IC-7000 to tune an antenna or an external tuner while displaying the SWR on the radio. Senses the voltage on a screwdriver antenna motor for automatic on and off of the tune mode. User selectable tune-up power can be a constant 30W or pulsed at a 50% duty cycle. No modifications. The supplied cable connects to the radio's CI-V jack. It utilizes the CI-V data port and the tuner port for SWR readout, frequency and the radio's preprogrammed sequencing of the tuner port. Last frequency memory. **7000TUNECONT $54.99**

Screwdriver Antenna Control for IC-7000



Integrates directly with the IC-7000, 7000 Tune Control and any screwdriver antenna. It automatically funds resonance with the push of the [TUNE] button on the IC-7000. Requires no connections or modification to the antenna or radio. Antenna SWR displays on the IC-7000..... **7000SCDRCONT $84.99**

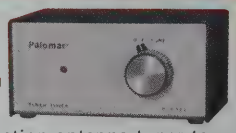
Tune up Control for Yaesu FT-100, FT-450, FT-950, FT-857 and FT-897



Controls the radio's [TUNE] button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., in any mode. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers ..... **YAETUNECONT $44.99**

Palomar Engineers

PT-340
Tuner-Tuner™



Allows tuning your station antenna tuner to your operating frequency without transmitting; your rig never sees a high SWR, no stressing components. Connects between your tuner and your rig. Set your receiver to frequency and turn on the Tuner-Tuner; you'll hear a loud S9+ noise. Simply adjust the antenna tuner until the noise nulls out. Turn off the Tuner-Tuner and you're ready to transmit with a low SWR. Covers 1.7-30 MHz. Uses a 9V battery. Dim: 5.5"w x 2.5"h x 2.5"d..... **Closeout $99.99**

259B

MFJ SWR Analyzers

You can ensure your antenna system is giving you top performance by using an MFJ SWR Analyzer. They're completely portable test stations, featuring a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance/Inductance Meter, and more.

You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make readings and adjustments. MFJ analyzers are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. One reading gives you a complete picture of your antenna, allows quick tuning adjustments on the spot.

Simple Operation – just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters (259B/269).

When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.

Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

Powered by (10) AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries (not included), or 110V with the MFJ-1312D adapter. For installed rechargeables batteries there is a built-in charger circuit that requires external 12VDC or the 1312D adapter. The 249B/259B have an SO-239 antenna connector, the 269 has a Type-N female and is supplied with a Type-N to S0-239 adapter. All metal cabinet. Dim: 6-3/4"h x 4"w x 2"d.

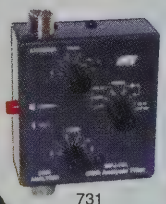
259B SWR Analyzer – Covers 1.8-170 MHz, two-line LCD screen and side-by-side meters **$269.99**

249B SWR Analyzer – Same coverage as the MFJ-259B but less analog meters. Reads SWR, true impedance magnitude and frequency (only) on the LCD panel **$249.99**

269 SWR Analyzer – Has all the features of the 259B, plus it additionally covers 415 to 470 MHz. A CoaxCalculator™ feature calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Read Complex Impedance as series equivalent resistance and reactance (Rs+jXs) or as magnitude (Z) and phase (degrees), parallel equivalent resistance and reactance (Rp+jXp). Measure SWR and loss of coax with any characteristic impedance from 10 to over 600Ω, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450Ω. On the 415 to 470 MHz range, read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency. Two-line LCD screen and side-by-side meters **$349.99**

249B 269

92AA10



731

66

29C / 39C

29C Carrying Case – Cushion and protects your 249B/259B. Tote it, wear it around your waist, over your shoulder, or clip it onto the tower. Back pocket holds dip coils and coax adapters. **$24.99**

39C Carrying Case – Fits the 269 ..... **$24.99**

66 Dip Meter Adapter – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz.....**$24.99**

92AA10 10 Pack "AA" NiMH Batteries.... **$29.99**

98 Accessory Pack – Includes 39C case, 66 dip adapter and 1312D AC adapter..... **$60.99**

98B Accessory Pack – Includes 10 "AA" NiMH batteries, 39C case, 66 dip coils and AC adapter..... **$93.99**

99 Accessory Pack – Includes 29C case, 66 dip coils and 1312D AC adapter..... **$60.99**

99B Accessory Pack – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and AC adapter..... **$93.99**

99C Accessory Pack – Includes 10 "AA" NiMH batteries and 1312D AC adapter **$45.99**

731 Tunable Measurement Filter – Use with 249B, 259B or 269 for 1.8-30 MHz measurements in the presence of strong RF fields from nearby broadcast stations or other RF sources..... **$99.99**

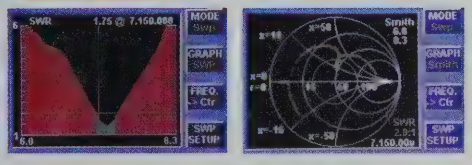
Palstar, Inc Antenna Analyzer

ZM-30 – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low-power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1 to 30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for field upgradable software. Battery operation allows you to take it right to the antenna. Durable, powder coated front panel. Dim: 3"w x 4"h x 2"d.... **$399.99**

TIMEWAVE TECHNOLOGY INC.

AntennaSmith™

Antenna Impedance Analyzer



- Full Color TFT LCD Graphic Display
- Covers 0.2 to 55 MHz
- SWR • Impedance (Z) • Reactance (r+jx)
- Reflection coefficient (ρ,ϑ) • Smith Chart

Day/Night Always-Visible Display
The transreflective TFT LCD color display is brilliantly visible in direct sunlight.

Full Graphics - Rapid update
Data graph updates every two seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system. Instantly see the effect of a change!

Adjustable Frequency Cursor/Generator
Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph. The Direct Digital Synthesizer makes a great RF signal generator in the Synthesizer mode. Easily calibrate to WWV with 1 Hz frequency resolution.

Rugged and Portable
Extruded aluminum case, (4) AA NiMH batteries for hours of field operation. A 12 VDC power supply/charger is included.

Models in stock at our Milwaukee Location:
TZ-900S with SO-239 connector **$999.99**
TZ-900N with Type-N connector..... **$999.99**

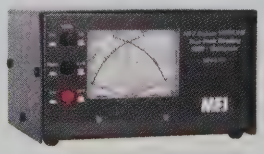
MFJ

SWR/POWER METERS

864 (bottom) – Three band coverage: 1.8–60 MHz, 144 MHz and 440 MHz. Power Ranges: 30/300W forward and 6/60W reflected. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Requires 12VDC for meter light. Dim: 7.25"w x 2.5"h x 2.25"d.. **$99.99**

862 (center) – Covers 144, 220 and 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75"w x 2.5"h x 2.25"d..... **$69.99**

860 (top) – Covers 1.8–60 MHz. Ranges: 30/300W forward and 6/60W reflected power. Dim: 4.5"w x 2.25"h x 3"d **$59.99**



815C – Simultaneously reads true peak or average power and SWR simultaneously on a 3-inch illuminated Cross-Needle meter. Covers 1.8–30 MHz, has 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12VDC. Dim: 6"w x 3.5"h x 4.5"d **$99.99**

817C – Same as 815C but for 144, 220 and 440 MHz bands, has 300/30W forward and 60/6W reflected power ranges..... **$99.99**

812B (right) – Indicates forward/reflected power on 144/220 MHz bands. Also, SWR 144 to 220 MHz, and field-strength 1 to 220 MHz. Power ranges: 30 & 300W. Dim: 4.5"w x 2.25"h x 3"d **$39.99**

816 Toroidal Meter – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5"w x 2.25"h x 3"d **$39.99**

844 VHF/UHF SWR/Power Meter (left) – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/Power on 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75"w x 3"h x 1.25"d... **$79.99**

868 Giant SWR/ Wattmeter
Measures an awesome 6-1/2 inches diagonally across the meter scale. Easy-to-read with large high contrast numbers. Covers 1.8 to 30 MHz and indicates true Peak or Average forward and reflected power and VSWR on 20, 200, and 2000W ranges. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter. *Power Saver™* circuit turns unit on only when RF power is being measured. Dim: 7"w x 5.5"h x 5"d..... **$149.99**

GrandMaster™ Series

Four models with different frequency and power ranges. Easy-to-read 3.25"w x 1.25"h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5"w x 3.125"h x 4.25"d.

870 (HF range) – 1.6 to 60 MHz.
Power ranges: 30/300/3000W + VSWR..... **$99.99**

872 (HF/VHF range) – 1.8 to 200 MHz
Power ranges: 5/20/200W + VSWR..... **$99.99**

873 (VHF/UHF range) – 125 to 525 MHz.
Power ranges: 5/20/200W + VSWR..... **$119.99**

874 (HF/VHF/UHF range) – 1.8 to 525 MHz.
Power ranges: 5/20/200W + VSWR **$129.99**

267 1.5KW Dry Dummy with SWR/Wattmeter
The 50Ω dry dummy load works DC to 60 MHz. Handles 100W for 10-min. or 1500W for 10-sec. The large, three-inch lighted Cross Needle meter reads SWR, forward and reflected power simultaneously. Reads PEP or average power on 300/3000W forward and 60/600W reflected power ranges, 1.8-54 MHz. Uses 12VDC for meter lamp. Dim: 4.5"w x 3.5"h x 10.5"d..... **$159.99**

841 144 MHz HT SWR/Wattmeter
Connects directly in line between your HT and antenna. Read SWR up to 6:1 and power output up to 5W. A rear 3-position switch selects SWR, SWR set, or forward power. BNC connectors input/output.
Dim: 2"w x 2.25"h x 1.5"d ... **$49.99**

MISC. METERS

801 Super Compact Field Strength Meter (left) Read Relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Telescopic whip included. Its compact size fits in the palm of your hand. Dim: 2.375"w x 3.625"h x 1"d..... **$29.99**

802 Bipolar Field Strength Meter (right) – Dual whips included. Dim: 2.4"w x 4"h x 1.5"d. **$49.99**

852 Power Line Noise Meter
A sensitive AM receiver, fixed tuned in the 135 MHz range, coupled with a balun isolated 24 inch directional telescopic dipole antenna. Simply hold the unit and rotate while listening via headphones and observing the meter. A clearly defined null accurately pin-points the location of the offending noise. Accommodates a tape recorder for later playback. Uses 9V battery. Dim: 2.8"w x 4"h x 1.5"d.. **$119.99**

805 RFI Detector – Clamp the top mounted transformer over a suspect cable or wire (up to 1/4 in. dia.) to detect RFI causing common-mode currents. Great for checking mobile installations – ferreting out alternator hash, ignition pulses and micro-processor noise on feed lines and power leads. Works VLF to VHF. Uses a 9-Volt battery. Dim: 2.25"w x 4.75"h x 1"d **$99.99**

854 RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5"w x 5.5"h x 1.5"d; 11 oz. **$119.99**

224 2M FM Signal Analyzer™
Covers 143.5-148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feedline loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4"w x 2.5"d x 6.75"h . **$169.99**

FREQUENCY COUNTERS

886 Pocket Frequency Counter
Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1-10 Hz resolution in the 300 MHz range and 10-1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75"w x 3.25"h x 1.25"d **$119.99**

888 Deluxe Frequency Counter
Measures frequency and period. Covers 10 Hz to 3 GHz. with a 10-digit LCD and an ultra-sensitive synchronous detector with 16 section signal strength bargraph. High-speed 300 MHz direct counter with 0.1 Hz resolution and 4 selectable gates. Hi-Z low range; Auto-hold; LED backlight; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd pack. With battery, charger, and telescopic whip. Dim: 2.75"w x 4.25"h x 1.25"d; 9 oz.. **$189.99**

SWR ANALYZERS

207 HF Antenna SWR Analyzer – Obtain a direct readout of antenna's SWR without formulas, etc. Range: 1.75 MHz to 30 MHz..... **$99.99**

208 VHF Antenna SWR Analyzer – Obtain direct SWR of antennas from 138-156 MHz..... **$99.99**

207/208 – Dim: 7"h x 2"w x 2"d and uses 9V Battery or 110 VAC with MFJ-1312D

209 SWR Analyzer – A wide range oscillator, a 50Ω RF bridge, and a calibrated bridge unbalance indicator. This combination allows measurement of antenna SWR from 1.8 to 170MHz on the single analog meter, and usable as a signal source. Uses (8) AA cells or 110VAC with MFJ-1312D. Dim: 6.75"h x 4"w x 2.5"d..... **$149.99**

Coaxial Dynamics RF Directional Wattmeters

Elements also work in BIRD meters!

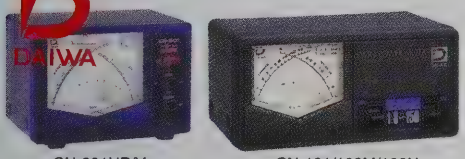
81000-A RF Directional Wattmeter – Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order) **$289.99**

83000-A RF Peak Reading Wattmeter – Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery (included) is required for peak reading mode..... **$413.99**

See Page 6 in the Price Guide for list of Plug-in Elements



CN-801HP/V CN-101/103M/103N

Cross Needle SWR/Power Meters

CN-101 – Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6"w x 3"h x 3.9"d; 1.5 lbs **$99.99**

CN-103M – Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP) **$99.99**

CN-103N – CN-103M with N connectors **$109.99**

Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6"w x 4"h x 4.5"d; 2.2 lbs

CN-801HP – 1.8-200 MHz, 20/200/2kW **$159.99**

CN-801V – 140-525 MHz, 20/200W **$154.99**

CN-801SII – 900-2500 MHz, 2/20W/200mW, type-N.... **$269.99**

DIAMOND ANTENNA

SWR/Power Meters

(left) Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6"w x 2.5"h x 4"d; 2 lbs.

SX-100 – 1.6-60 MHz, 30/300/3kW PEP **$134.99**

SX-200 – 1.8-200 MHz, 5/20/200W PEP . **$94.99**

SX-400 – 140-525 MHz, 5/20/200W PEP **$114.99**

SX-600 – Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges..... **$169.99**

SX-1000 – Dual band, 1.8-160 MHz and 430-1300 MHz, 5/20/200W PEP ranges..... **$214.99**

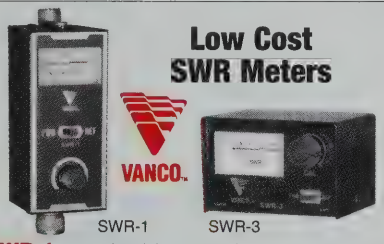
Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3"w x 3.4"h x 3.7"d; 9 oz.

SX-20C – 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **$89.99**

SX-40C – 144-470 MHz (220 MHz with correction factor); 15/150W (3W minimum power)... **$79.99**

Low Cost SWR Meters

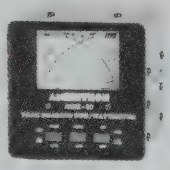


SWR-1 SWR-3

SWR-1 SWR/Field Strength – Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1–3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 6"h x 2"w x 2.9"d; 14 oz..... **$29.99**

SWR-3 SWR Meter – Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1–3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5"h x 3.5"w x 3"d; 6 oz.. **$19.99**

AMERITRON



AWM-30 SWR/Wattmeter Range: 1.8 to 30 MHz. Reads true-peak or average power, forward and reflected power and SWR on an illuminated three inch Cross-Needle meter with 3000/300 Watt ranges. Remote sensor with cable. Battery saver turns unit off with no RF applied. Uses 12 VDC or 9V battery. Dim: 4.5"w x 4.5"h x 5.5"d..... **$149.99**

VECTRONICS SWR/POWER METERS

PM-30HF – Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors. Dim: 5.3"w x 3.5"h x 5.75"d; 1.2 lbs..... **$89.99**

PM-30UV – Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors..... **$99.99**

DUMMY LOADS

A Must for every hamshack!

ADL-1500 ADL-2500

ADL-1500 Oil Cooled Dummy Load – Similar to MFJ-250, 1500W up to 30 MHz..... **$74.99**

ADL-2500 Dry Dummy Load – Similar to Vectronics DL-2500 below, 2500W up to 30 MHz, fan cooled **$209.99**

DIAMOND ANTENNA

DL-30A Small Dummy Load Frequency range: DC to 500MHz. Power: 15W continuous, 100W peak. Dim: 3" long x 1.25" diameter. PL-259 male connector **$39.99**

DL-30N Has Type-N male connector .. **$39.99**

MFJ

250/250X 260C

250 Versaload – A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3"h x 6.6" diameter. Supplied with high-quality oil..... **$69.99**

250X – Same as above, but requires oil.. **$49.99**

Dry Loads – A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

260C HF/VHF Range – Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5"w x 2.5"h x 7"d.... **$39.99**

260CN – Has type "N" connector **$49.99**

264 UHF, Wide Range – Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3"w x 3"h x 9"d..... **$74.99**

264N – Has type "N" connector **$84.99**

267 SWR/Wattmeter with Dry Dummy Load – A built-in 100W 50 ohm dummy load with a 3 inch cross-needle meter shows peak and average forward and reflected power and SWR. Usable 1.8–60 MHz. Power: 300/3000W forward, 60/600W reflected Usable 1.8 to 60 MHz. Dim: 4"w x 3.125"h x 10"d..... **$159.99**

VECTRONICS

DL-2500

DL-300M DL-650M

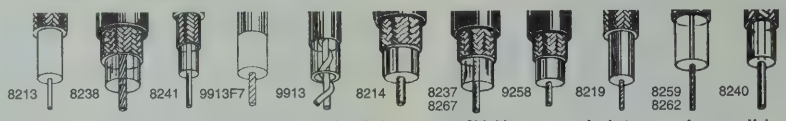
DL-300M Dry Dummy Load – Power rated at 300W for 15 sec., to 100W for 40 sec. VSWR <1.3:1 at 150 MHz. Dim: 5"h x 2"d x 2.9"h; 8 oz. **$49.99**

DL-650M Dry Dummy Load – Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.3:1 at 500 MHz.. **$79.99**

DL-2500 High-Power Dry Load – A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes **$199.99**

BELDEN
SENDING ALL THE RIGHT SIGNALS

See Belden in the Price Guide



Model	Type	Dia. (in.)	Center conductor	Insulation type	Shield coverage	Jacket type	Imp. (Ω)	Vel. factor	Loss/100' 100 MHz
8216	RG-174 Sub-miniature	.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50Ω	66%	8.4 dB
8219	RG-58A/U	.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC	53.5Ω	73%	4.5 dB
8240	RG-58/U	.195	20 AWG solid bare copper	Solid polyethylene	95% tinned copper braid	Black PVC	51.5Ω	66%	3.8 dB
8259	RG-58A/U	.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50Ω	66%	5.4 dB
8262	RG-58C/U non-contaminating	.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black. non-contaminating PVC	50Ω	66%	5.4 dB
9258	RG-8X Mini-8	.242	16 AWG stranded bare copper	Foam polyethylene	95% bare copper braid	Black PVC	50Ω	82%	3.1 dB
8214	RG-8/U	.403	11 AWG stranded bare copper	Foam polyethylene	97% bare copper braid	Black PVC	50Ω	78%	1.7 dB
8237	RG-8/U	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black PVC	52Ω	66%	1.9 dB
8267	RG-213/U non-contaminating	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black. non-contaminating PCV	50Ω	66%	2.1 dB
9913	Low loss semi-flexible RG-8/U	.405	10 AWG solid bare copper	Semi-solid polyethylene	100% bonded foil plus 90% tinned copper. braid	Black PVC	50Ω	84%	1.3 dB
9913F7	Low loss flexible RG-8/U	.405	10 AWG stranded bare copper	Gas-injected foam polyethylene	100% bonded foil plus 90% tinned copper braid	Black Belflex®	50Ω	84%	1.5 dB
8241	RG-59/U	.242	23 AWG solid bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75Ω	66%	3.4 dB
8213	RG-11/U	.405	AWG 14 solid bare copper	Gas-injected foam polyethylene	97% bare copper braid	Black polyethylene	75Ω	84%	1.3 dB
8238	RG-11/U	.405	18 AWG stranded tinned copper.	Semi-foam polyethylene	97% bare copper braid	Black PVC	75Ω	66%	2.0 dB

ROTOR CABLE

8448 Standard duty, 8 wire – Up to 100 ft. runs. Six #22 and two #18 AWG tinned copper conductors. PVC insulation and PVC jacket.

9405 Heavy duty, 8 wire – Over 100 ft. runs. Six #18 and two #16 AWG tinned copper conductors. PVC insulation and PVC jacket.

8484 Standard duty, 4 wire – #20 AWG tinned copper conductors. PVC insulation & jacket.

PREASSEMBLED COAXIAL HOOK-UPS

9354 – 50' RG-8/U low-loss foam, PL-259s **$99.99**
9355 – 75' RG-8/U low-loss foam, PL-259s **134.99**
9356 – 100' RG-8/U low-loss foam, PL-259s **154.99**

ANTENNA & GROUND WIRE

8000 – #14 AWG (7x22) stranded bare copper-covered steel antenna wire.

8018-50 – #8 AWG (solid) soft annealed aluminum ground wire – multiples of 50 ft..... each **$27.99**

TIMES MICROWAVE SYSTEMS

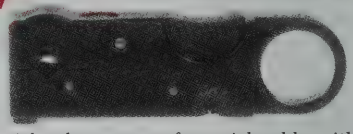
LMR-400 Low-Loss Flexible Coaxial Cable – The ideal replacement for RG-8/9913 air-dielectric cables. **Flexible:** Minimum bend radius of 1 in. is easier to handle compared to corrugated copper or smooth wall copper hard-line cables; **Dielectric:** High velocity gas-injected closed cell foam dielectric, 0.208 in.; **RF Shielding:** Bonded aluminum tape outer conductor, overlapped to provide 100% coverage and a 95% overall tinned copper braid. Lowest loss of any RG8/RG213 type cable; **Inner Conductor:** Solid BCCAl, 0.108 in.; **Jacket:** UV protected black polyethylene, 0.405 in.; **Velocity Factor:** 85%; **Loss (100 ft.):** 0.9dB @ 50MHz; 1.5dB @ 150MHz; 1.9dB @ 220MHz; 2.7dB @ 450 MHz, 3.9 dB @ 900 MHz, 6.0dB @ 2000 MHz..... per ft. **88¢**
LMR-400500 – 500 ft. roll of above **$339.99**

LMR-400-DB Watertight Flexible Coaxial Cable Same specifications as LMR-400 but incorporates an inert flooding compound that completely eliminates all paths of water migration & ingress for long term reliability (10 year warranty)..... per ft. **$1.00**
LMR-400DB500 – 500 ft. roll of above **$389.99**

LMR-400-UF ULTRA-FLEX Coaxial Cable – Has a stranded center conductor. Very flexible, best used on rotating antenna systems and for jumpers. Loss is 15% greater than LMR-400 ..... per ft. **$1.33**
LMR-400UF500 – 500 ft. roll of above **$529.99**

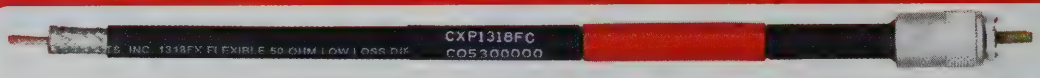
AIM

ROTARY COAX CABLE STRIPPERS



For quick, clean prep of coaxial cable without damage. Insert coax, turn clockwise 4 or 5 times.

24-7735P – for RG-58, RG-59, RG-62.. **$22.99**
24-7736P – for RG-6, RG-59, 8281..... **22.99**
24-7739P – for RG-8, RG-11, RG-213..... **32.99**



READY-MADE COAX CABLE ASSEMBLIES

SILVER, TEFLON®, CONNECTORS.

CXP1318FC
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

CXP008C
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

CXP1318FN
Connector: **"N" Male both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,
Recommended frequencies: 150MHz & higher.

CXP08XC
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0
Recommended frequencies: 1-30MHz.

CXP213C
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **1** (97%BC Braid) **V/P 66%**
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

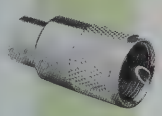
BRAIDED GROUND STRAP
Sizes: ..... 1/2" wide
or .....1" wide

CABLE X-PERTS, INC.
Connecting You to the World...

See Page 6 in the Price Guide for pricing.

UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.

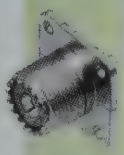


AMPHENOL
83-1SP-1050 – PL-259 Male coaxial connector
83-1SP – Pl-259 silver-plated coax connector

CZL
401TS – PL-259; silver plated, Teflon®, gold pin C/O

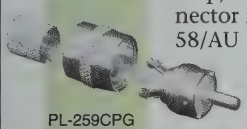
AMPHENOL
PL-259 Reducers
83-185-RFX – For RG-58
83-168-RFX – RG-59/8X

AMPHENOL
83-878 – UHF single hole bulkhead receptacle



AMPHENOL
83-1R – SO-239 UHF panel receptacle

SHAKESPEARE
PL-259CPG – PL-259; no strip, solderless male connector for RG-8X & RG-58/AU

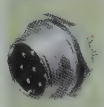


PL-259CPG

PL-258CPG

SHAKESPEARE
PL-258CPG – No strip, solderless splice for RG-8X & RG-58/AU

MICROPHONE AUDIO & DIN CONNECTORS



VANCO
CBC-8P Panel mount 8-pin male

KENWOOD
7-PIN DIN plug
8-PIN DIN plug
13-PIN DIN plug

PHILMORE
61-608B 8-pin female microphone plug

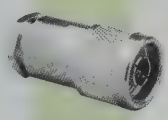
VANCO
CBC-4 4-pin female microphone plug
CBC-5 5-pin female microphone plug
CBC-6 6-pin female microphone plug

HOUSE OF DEALS
AP-115 1/4" metal stereo plug
AP-135 3.5mm stereo mini-phone plug

DALBANI
15-0293 3.5mm monaural phone plug C/O

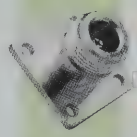
TYPE-N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.



AMPHENOL
82-202-1006 –Type-N Male connector for 8214, 9913 & 9913F
34025 – Type-N Male connector for RG-58

CABLE X-PERTS
6633S – Two-piece, EZ-install Type-N connector for 9913/8214



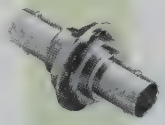
AIM
26-8011 – Type-N chassis mount receptacle

AMPHENOL
82-24 – Type-N panel mount receptacle

BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.

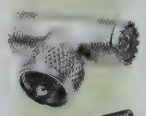
AMPHENOL
31-002
BNC Male for RG-58
31-012
BNC Male for RG-59/8X



AIM
CPAD-556M
BNC Dual Female chassis mount

AMPHENOL
31-221
BNC Female chassis mount

COAXIAL ADAPTERS



AMPHENOL
83-1T
UHF T-connector

AIM
27-8140
BNC T-connector

AMPHENOL
83-877 – UHF double male adapter

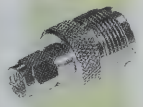
AMPHENOL
4400 – SO-239 to Type-N male adapter

AIM
26-8015 – SO-239 to Type-N male adapter
26-8016 – BNC female to Type-N male adapter

AMPHENOL
31-28 – BNC female to PL-259 adapter

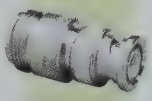
AIM
27-8120 – BNC female to PL-259 adapter

HOUSE OF DEALS
SMA-872 – SO-239 to SMA plug adapter

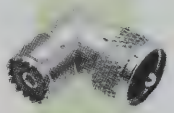


AIM
27-8130 – BNC double male adapter

AIM
25-7420 – BNC male to SO-239 adapter
26-8017 – BNC male to N female adapter



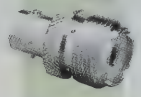
AMPHENOL
2900 – BNC male to SO-239 adapter



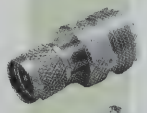
AMPHENOL
83-1AP – UHF right angle adapter

AMPHENOL
82-64 – Type-N right angle adapter

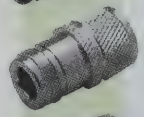
AIM
26-8016 – BNC female to Type-N male adapter



AIM
25-7365 – BNC female to SO-239 adapter



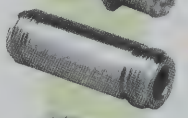
AIM
29-4140 – SO-239 to mini-PL-259 adapter



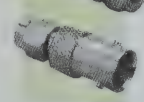
AIM
26-8014 – Type-N female to PL-259 adapter

AMPHENOL
83-1J – UHF double female connector

AIM
CPAD-207 – Chassis or panel mount SO-239 double female connector



AIM
26-8010 – Type-N double female connector

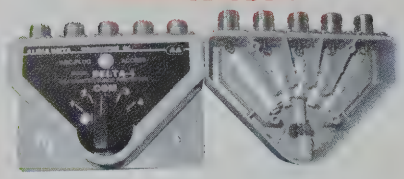


AIM
29-3855 – BNC female to SMA male adapter

Prices for items on this page can be found under CONNECTORS on Page 7 in the Price Guide.

COAXIAL ANTENNA SWITCHES

ALPHA DELTA



Made only in the USA. A high quality custom design that features a cast housing with a constant impedance micro-strip cavity for outstanding performance through UHF. Two and four position models, see the Price Guide and Alpha Delta page.

DIAMOND ANTENNA

CX-210A CX-310A

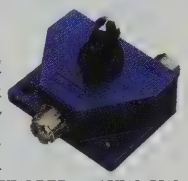
Low Loss, High Isolation Heavy Duty Coaxial Switches

CX-210A 2-position – Frequency Range: DC to 1000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 2.5"w x 1.75"h x 3.5"d, 15.5 oz..... **$44.99**

CX-210N 2-position – Same as CX-210A, except has Type-N connectors and different ratings. Frequency Range: DC-3000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz); 150W (1000-3000 MHz)..... **$74.99**

CX-310A 3-position – Frequency Range: DC-800 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 3.3"w x 1.12"h x 3.75"d, 20 oz..... **$83.99**

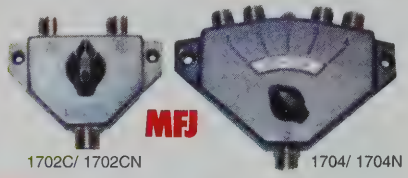
DAIWA industry co. ltd.



CS-201 2-Position Coaxial Switch – Heavy die-cast metal construction with Cavity Design, usable up to 600 MHz. <0.12 VSWR, <0.2dB insertion loss, 60dB isolation. Rated 2.5 KW PEP or 1KW CW. Automatically grounds the unused terminal. SO-239 connectors..... **$32.99**

CS-201GII – Same as CS-201 but with type-N connectors and good to 1300 MHz..... **$48.99**

MFJ



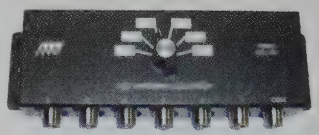
1702C/ 1702CN 1704/ 1704N

1702C 2-Position Antenna Switch – Heavy cavity-type construction, rated to 500 MHz and 2.5KW PEP or 1KW CW. SO-239 connectors, 50-75Ω. <0.2dB loss and >50dB isolation. Switch has a center grounding position and the unused terminal is automatically grounded for surge protection. Dim: 3"w x 2"h x 2"d **$39.99**

1702CN – Same as 1702C, but with Type-N connectors, good up to 1.1 GHz..... **$44.99**

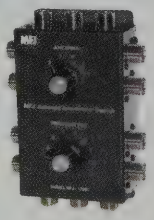
1704 4-Position Antenna Switch with Lightning Surge Protection – Heavy, cavity-type. SO-239 connectors, 50-75Ω, rated to 500 MHz and 2.5KW PEP, 1KW CW. Center ground position, replaceable gas tube protector. Dim: 6.2"w x 4.2"h x 2"d... **$79.99**

1704N – Same as 1704 but with Type-N connectors, good to 1.1 GHz..... **$84.99**

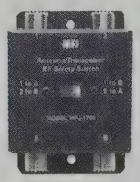


1701 Six position Antenna Switch – Select 1 to 6 50-75Ω antennas. Rated 2KW PEP or 1KW CW, 1.8-30 MHz. SO-239 connectors, unused terminals are grounded. Dim: 10"w x 3"h x 1.5"d.... **$69.99**

1700C Antenna and Transceiver Switch with Lightning Protection



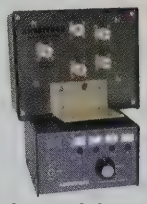
Switch up to six antennas and six radios in any combination. Rated 1.8-30 MHz, 2KW PEP or 1KW CW, 50/75Ω..... **$99.99**



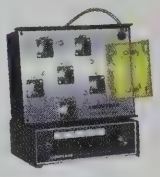
1703 Rig/Antenna RF Safety Switch – Prevents your rig from transmitting into no load. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to different combinations. Range: 1.8-30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5"w x 2.5"h x 1.5"d **$29.99**

REMOTE ANTENNA SWITCHES

AMERITRON



RCS-4 – Use just one coaxial feedline, select up to 4 different HF antennas. The weather proof relay box can be remotely mounted outside on a tower, mast, etc. A control box located at the operating position works thru the coaxial cable without the need for a separate control line. Designed with heavy duty 10 Amp contact relays on a fiberglass circuit board rated at 2 KW and 1.8-30 MHz. Dim: (relay box) 5.25"d x 7"w x 3"; (control box) 6"d x 6"w x 2.5"h..... **$149.99**



RCS-8V – Independently or simultaneously select up to 5 different antennas using one coaxial feedline and an 8-wire control cable. Select grounding or floating unused terminals. SO-239 connectors. Rated 5KW to 30 MHz, 1KW to 150 MHz..... **$159.99**

RCS-8VN – Same as RCS-8V but with Type-N female coaxial connectors **$169.99**

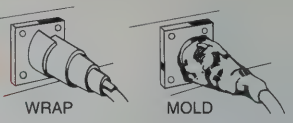
RCS-10 – Select up to 8 HF antennas using one feed line and a single 4-wire control line. Long life, 16 Amp sealed relays rated up to 100 MHz and 5KW to 30 MHz **$179.99**

MFJ

4712 – Select 2 antennas using a single coax feedline to an outside switch box. Separate control line not needed. Rated 1.8-150 MHz, 1500W and 50-75Ω. Inside control box and weatherproof outside switch box. SO-239 connectors, mounting bracket..... **$79.99**

CONNECTOR PROTECTION

COAX-SEAL



WRAP MOLD

UNV 104 Hand Moldable Plastic for Antenna Component Protection – The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2"w x 60"l..... **$3.99**

WATER PROTECTION

Cross Devices

STUF Dielectric Water-proof Connector Filler High purity macroscopic foam dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten. The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube) **$5.99**

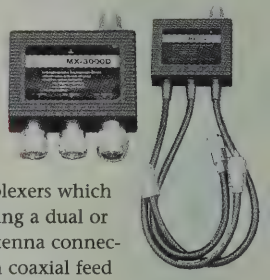
CORROSION PROTECTION

PENETROX™

A highly conductive grease recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, bare conductors, and bus bars. Assures long term high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly, to provide a non-corrosive, low resistance air tight seal and easy disassembly.. PENETROX A (4oz. bottle) **$14.99**

DUPLEXERS/TRIPLEXERS

See Comet on Page 7 Diamond on Page 9 in the Price Guide for a selection of Duplexers and Triplexers which will allow connecting a dual or tri-band radio's antenna connections to a common coaxial feed line and multi-band antenna.



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USE YOUR CREDIT CARD

PolyPhaser® CORPORATION

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a SINGLE, low impedance grounding point within the hamshack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor). Polyphaser CU-SPGP panel (right) recommended.

BROADBAND COAXIAL PROTECTORS

Uses special hermetically-sealed gas tubes and other components to protect station equipment from surge voltages and currents that form differentially on coaxial transmission lines. Wide frequency range, low loss and DC blocked for maximum protection Aluminum enclosure. Silver-center, TFE UHF connector or silver shell and gold pin Type-N.

Flange Mount

IS-50UX-C0
Range: 1.5–400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector **$66.99**

IS-50UX-C1
Range: 50–700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **$66.99**

IS-50NX-C2
Range: 125–1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N ... **$62.99**

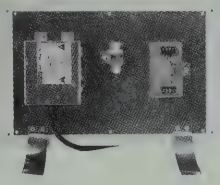
Bulkhead Mount

IS-B50LU-C0
Range: 1.5–400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector **$69.99**

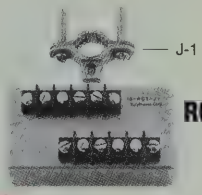
IS-B50LU-C1
Range: 50–700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **$69.99**

IS-B50LN-C2
Range: 125–1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N ... **$69.99**

GROUNDING PANEL



CU-SPGP – A heavy (0.062") copper plate mounted on 1/2" plywood. Use for mounting surge protectors and establishing the very important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18" x 12" sandwich bars. Standard 16" on-center mounting... **$179.99**



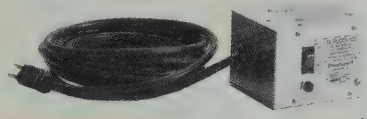
ROTOR CONTROL PROTECTOR

IS-RCT – Protects rotor controllers (up to 8-wires) from the damages relating to lightning events. Each terminal has an individual gas tube inside the water-tight aluminum box. Shown with optional J-1 Transition Clamp installed on the top..... **$129.99**

J-1 Transition Clamp – For IS-RCT **$15.99**

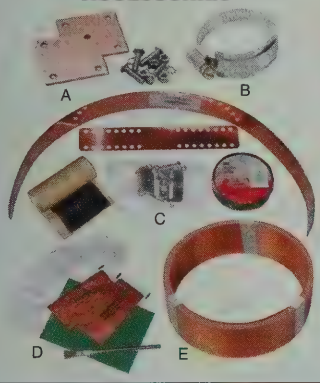
POWER LINE EXTENSION PROTECTOR

In-line, multi-stage surge protector provides multi-strike protection, filtering and proper grounding for a 120V AC circuit. Has 2 grounded outlets, power on/off rocker switch, and circuit breaker. All aluminum grounded enclosure. Dim: 4.75" wide.



PLDO-120US15A – 15A, 15 ft. cord. C/O **$149.99**
PLDO-120US20A – 20A, 6 ft. cord..... **$199.99**

ACCESSORIES



1C-112S Clamp Bond (A) – Bonds #6 – #1 AWG cable to 1-1/2" Copper Strap..... **$33.99**

58R-112S Clamp Bond (A) – Bonds 1-1/2" copper strap to a 5/8" Ground Rod. Looks same as 1S-112S except fits 5/8" rod **$32.99**

TK-2 Ground Clamp (B) – Attaches Copper Strap to Galvanized Tower Legs; 1-1/4" to 2-1/4" diameter (Rohn 25, 45, 65, etc.) **$8.99**

UNIKIT2CC Cable Grounding kit (C) – Attaches coaxial cable (1/4" to 2-1/8" dia.) to a copper or brass grounding point. Copper strap 24 in. long. Hardware, coax sealer and tape included... **$49.99**

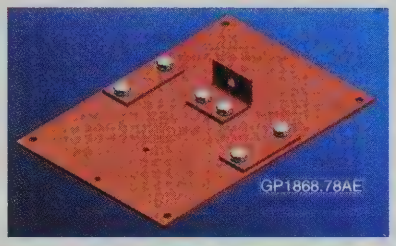
CCK Copper Cleaning Kit (D) – Easily clean copper and weather seal connections from moisture and corrosion. Includes surface cleaning pad, copper joint compound, brush & finger cleaning packets **$28.99**

Low Inductance Copper Strap (E)
Larger surface area and lower inductance is a big advantage over wire for RF grounding and lightning protection. #26 AWG, available in 1-1/2 or 3 in. widths and 25, 50 or 100 ft. rolls ..... See Page 19

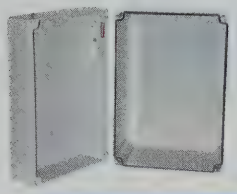
GROUNDING ACCESSORIES

GBIS18114AE 1/8" Copper Entrance Ground Bar Kit – Installs at shack entrance, making a short connection to a ground system. Holds up to five PolyPhaser lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Accepts grounding wires from 1/0 stranded to #6 solid **$39.99**

GEL3AE – Pkg. of 5 HD terminal lugs **$26.99**



GP1868.78AE 1/8" Copper Single Point Ground Panel Kit – Provides grounding for two transceiver lines and rotor control cable. Installs at tower base or on outside wall. Fits inside a NEMA-4X style box for weather proofing. Tapped holes, sandwich plates and hardware provided... **$76.99**

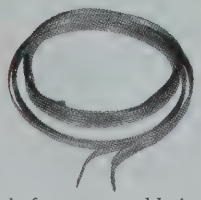


GBX976AE
NEMA 4X
Waterproof Enclosure
Accepts GP1868.78AE ground panel, above
$127.99

GBIS18148AE 1/8" Copper Station Ground Bar Kit – Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4 in. strap and lugs for added assemblies **$83.99**

Connecting you to the World™
CABLE XPERTS, INC.

FLAT BRAIDED GROUND STRAP

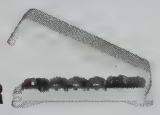


Flat, flexible, and tinned for easy soldering. Use the 1 in. wide size for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lighting protection.

2332 – 1/2 in. (10 ga.), rated at 53A .... per ft. **89¢**
2332 100 – 100 ft. roll of above..... **$70.99**
235 – 1 in. (7 ga.), rated at 85A ..... per ft. **$1.44**
235 100 – 100 ft. roll of above..... **$124.99**

Kleinhuis
North America, Inc.

ISOLATED GROUNDING BAR

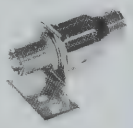


1309 Isolated Ground Bar – Provides additional panel, sub or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Nickel-plated, copper clamping rail, locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5"w x 1.75"h..... **$14.99**

MFJ

270 Lightning Surge Protector – An ultra-fast gas discharge tube safely shunts impulse current up to 5,000 Amps peak to an independent ground. Rated 400W PEP, up to 1000 MHz..... **$29.99**

AES LIGHTNING PROTECTORS



Replaceable Gas-tube protection isolates damaging surges. Bulk head or flange mounting with included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5"l x 1" dia.

SP-U – UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss..... **$59.99**
SP-N – Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss **$59.99**
AP – Replacement Gas-tube protector **$9.99**

LOW-PASS & HIGH-PASS FILTERS

For suppressing Television interference (TVI) from nearby HF transmitters

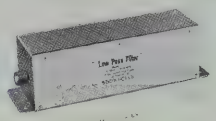
LOW-PASS FILTERS installs in the transmission line between the transmitter and antenna or tuner. Allows signals below the filter's cutoff frequency to pass through to the antenna and attenuates signals above the cutoff frequency.

HIGH-PASS FILTERS installs at the TV set antenna terminals. Allow signals above the filter's cut-off frequency to pass through to the TV and attenuates signals below the cutoff frequency.

AMECO

HP-75T High-Pass Filter – Stops interference to TV, FM & VCRs from amateur radio and other RF sources. For 75Ω coaxial cable systems Provides 70 dB attenuation below 50 MHz with a very sharp cut-off at 52 MHz **$14.99**

BENCHER

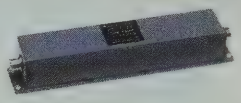


YA-1 52Ω Low-Pass Filter – Frequency: 1.8 to 29.7 MHz. Power: 1500W continuous, 5000W peak. Insertion loss: <0.2 dB at 29.7 MHz. Attenuation: 80 db @ 54 MHz. SO-239 connectors. Dim: 9.2"w x 2.5"h x 2.5"d, 2 lbs... **$90.99**

MFJ

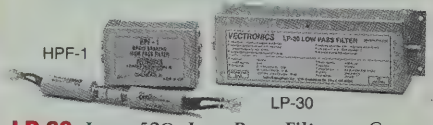
704 52Ω Low-Pass Filter – Frequency: 1.8-30 MHz. Power: full legal. Nine Chebyshev poles and Teflon® capacitors. Attenuates above 40 MHz. Insertion Loss: <0.5 dB. RF tight cabinet. Dim: 3" h x 3"w x 9"d..... **$59.99**

KENWOOD



LF-30A 52Ω Low-Pass Filter – Frequency: 1.8-30 MHz. Power: 1 KW. Loss: <0.5dB @ 30 MHz. Dim: 9.6"w x 2"h x 1.5"d..... **$64.99**

VECTRONICS



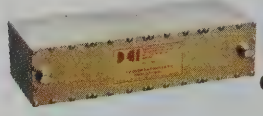
LP-30 Low 52Ω Low-Pass Filter – Covers 1.8-30 MHz, handles 1.5 KW. Up to –70dB harmonic attenuation **$89.99**

LP-2500 – Same, but 2.5KW rating. **$129.99**

HPF-1 300Ω High-Pass Filter – Reduces signals received from transmitters operating below 30 MHz. Effective in the TV passband 52 to 550 MHz. Unique shield breaking circuit prevents antenna cable from acting like an HF antenna. Includes a 75Ω matching transformer. **$24.99**

HPF-2 High-Pass Filter – Same as HPF-1 but a Deluxe Version that suppresses the more severe TV interference from nearby radio transmitters such as broadcast, commercial, two-way, amateur and CB operating below 30 MHz. Additionally, uses a toroid ferrite core to reject common mode interference caused by RF current on the coax shield **$34.99**

BANDPASS FILTERS



DCI DIGITAL COMMUNICATIONS

Installs in transmission line between a 2M, 220 or 440 MHz rig and antenna. Reduces the strength of undesired out-of-band signals (pagers, police radio, etc.) while allowing desired signals to pass through, and reducing spurious emissions on transmit.. VSWR: 1.5:1; Power: 200W. Aluminum, copper and brass construction. Dim: 12w"x 3"h x 5"d.

146-4H – Range: 144–148 MHz. Loss <1 dB; Selectivity: –57dB @ 136 MHz and –43dB @ 156 MHz. SO-239 silver-teflon connectors..... **$169.99**

145-2H – Same, but 144–146 MHz **$169.99**

146/444DB Dual Band – Range: 144–148/ 438–450 MHz. Selectivity: –50dB @ 136 MHz, –40dB @ 156 MHz, –30dB @ 425 MHz, –25dB @ 465 MHz. SO-239 silver-teflon connectors..... **$239.99**

223.5-3H – Range: 222–225 MHz. Loss 1 dB; Selectivity: –33dB @ 213 MHz and –28dB @ 233 MHz. SO-239 silver-teflon connectors..... **$169.99**

445-10C – Range: 440–450 MHz. Typical selectivity: –47dB @ 425 MHz, –50dB @ 456 MHz; Loss 1dB. Type-N silver-teflon-gold connectors..... **$189.99**

435-10C – Same, but 430–440 MHz **$189.99**

Upgrade to type-N connectors on 2m and 220 MHz models – add $10 to price. Special Order

FERRITE RFI KITS

MFJ

701 RFI Free Choke Kit – Eliminate RFI problems by winding an offending cable around an RFI suppressing toroid. Effective from 0.5-200 MHz. Split into halves for easy winding of all types of cable; computer ribbon, coax, power cord, telephone, audio-video. Halves mount in snap-together plastic frame. Multiples can be stacked for increased effect. (Pack of 4) **$26.99**

Palomar Engineers

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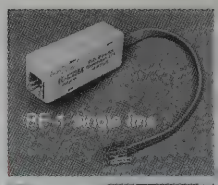

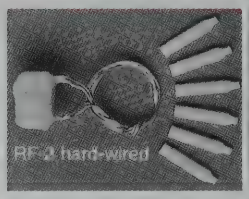

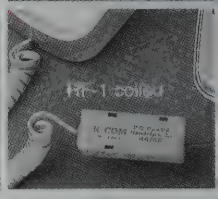

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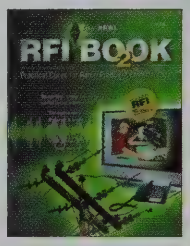

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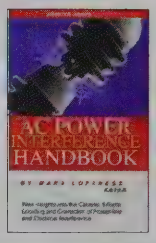

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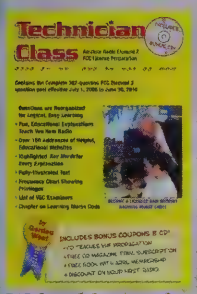

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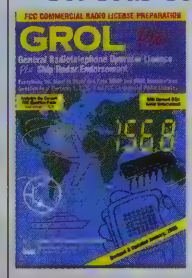

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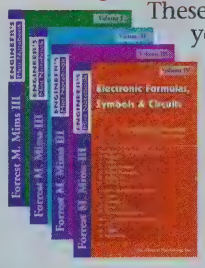

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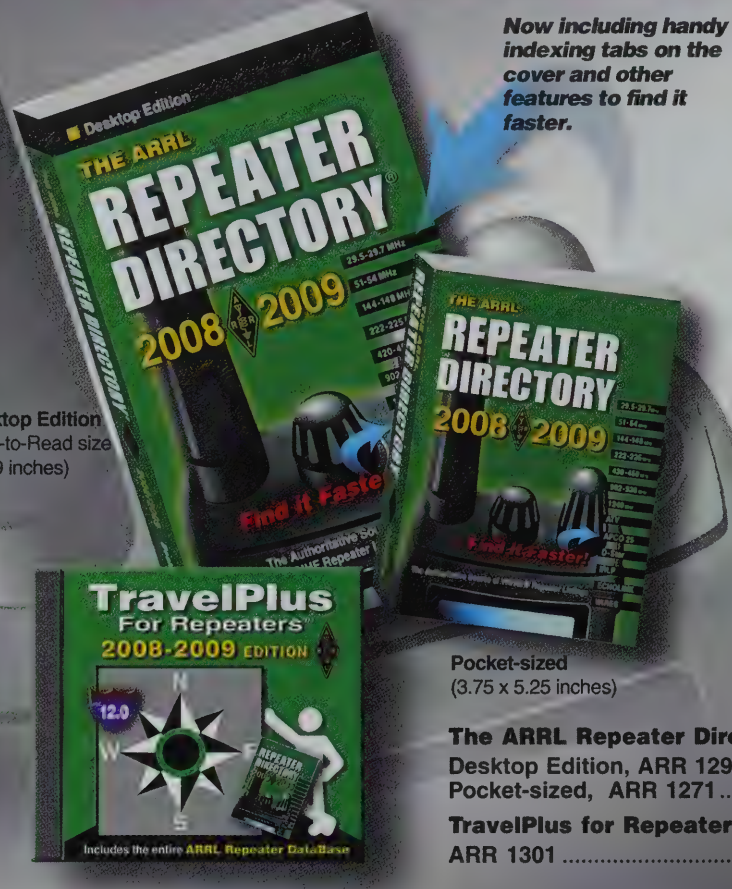

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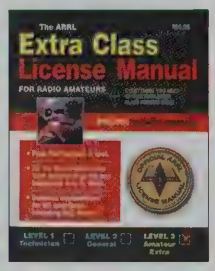

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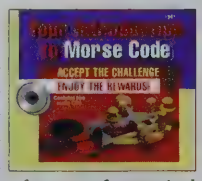

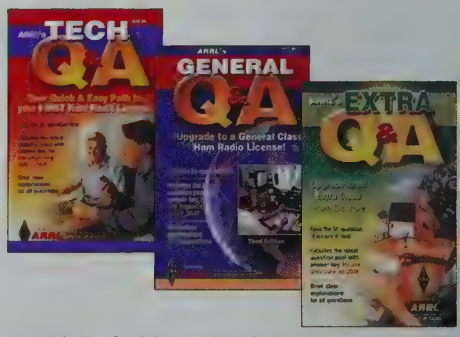

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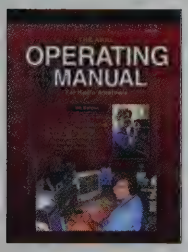

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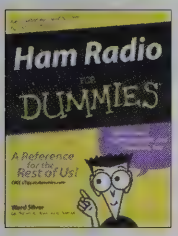

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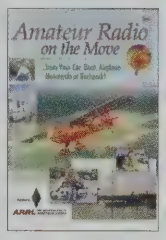

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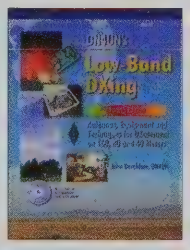

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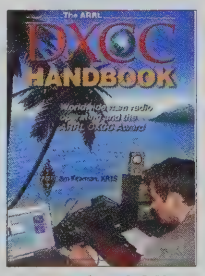

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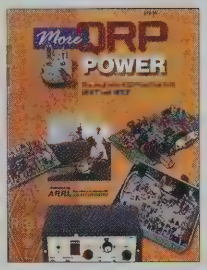

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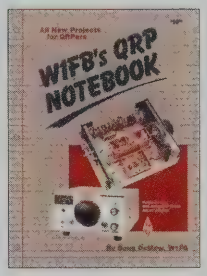

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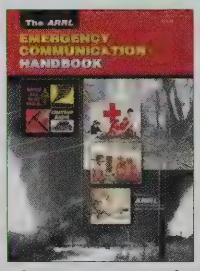

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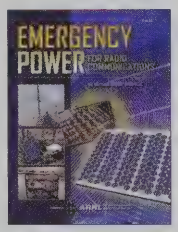

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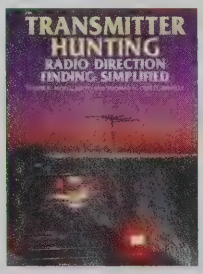

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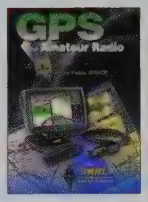

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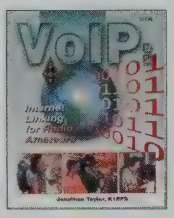

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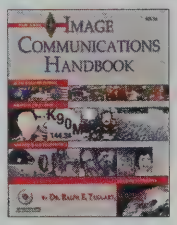

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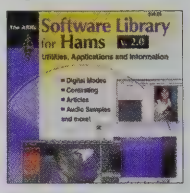

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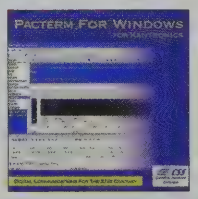

Software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmost for TNC interface. For Soundcard Only mode use any of the popular soundcard interfaces like the Hamhub, RIGblaster or MFJ-1275/1279 interfaces. Built-in logging feature.

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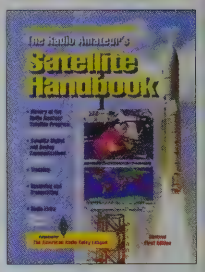

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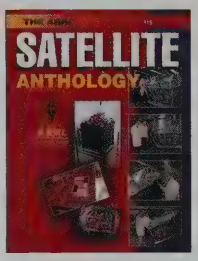

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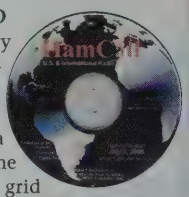

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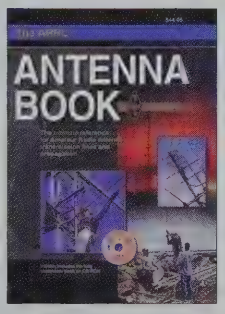

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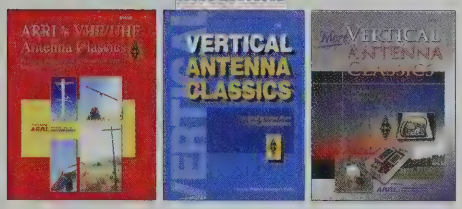

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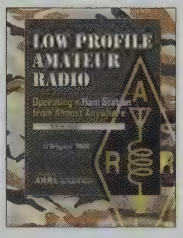

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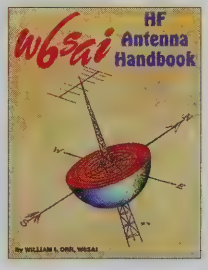
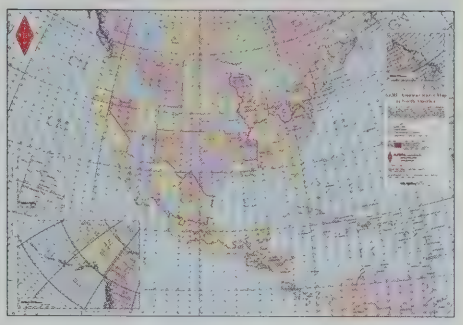


MAPS / ATLAS / GRIDS



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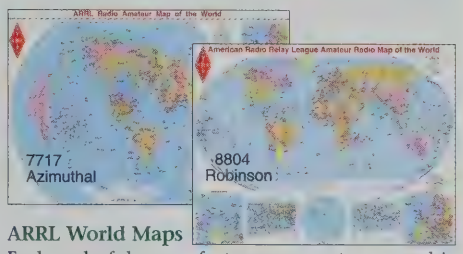

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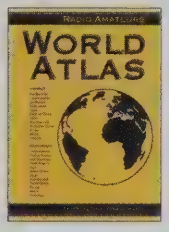

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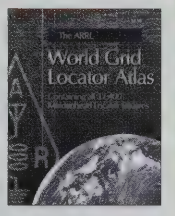

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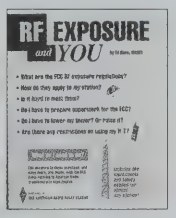

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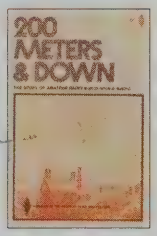

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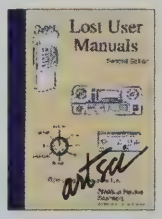

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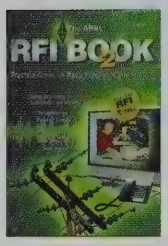

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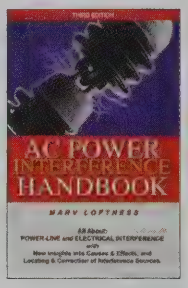

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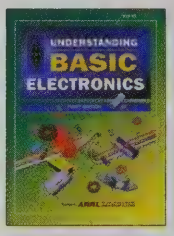

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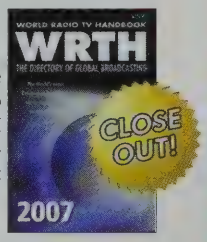

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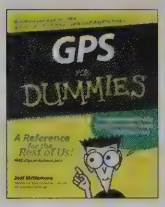

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3502	Solid State QRP Projects	12.95
3504	FET Principles and Projects	16.95
3506	Ferromagnetic Core Design & Apps	19.95
3507	Practical RF Design Manual	19.95
3509	Ladder Crystal Filters	19.95
36	Shortwave Listener's Guide	12.95
37	Ham Radio Communications Circuit files	12.95
38	Easy-Up Antennas	19.95

Current issues of Monthly Magazines

CQ Magazine	CQX CQ	$5.99
Electric Radio	ELE CTRICRADIO	3.85
Monitoring Times	GRV MONITORTIMES	5.95
Nuts & Volts	NUT NUTS&VOLTS	5.50
Popular Communications	CQX POPCOMM	5.99
QEX Magazine	ARR QEX	5.00
QST Magazine	ARR QST	4.99

Cobra CB RADIOS

19DX IV **Compact 40 channel Mobile CB Radio** New compact design; Full function LCD display; Instant channel 9/19; RF gain/squelch control; Combination S/RF meter; Channel Indicator; TX indicator; CB/PA switch; Mobile bracket.
Dim: 4.5"w x 1.75"h x 7.25"d; 2.1 lbs..... **$49.99**

25LTD **AM Mobile CB Radio** – 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 8.6"d x 6.3"w x 2.2"h; 4 lbs **$89.99**

25WXNW ST **AM Mobile CB Radio** – Same as LTD but with NightWatch™ & Weather **$109.99**

29LTD **AM Mobile CB Radio** – Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/RF/SWR meter. Dim: 8.6"d x 6.2"w x 2.2"h; 4 lbs **$99.99**

Night View Day View

29NW **AM Mobile CB Radio** – Same look and basic features as the 29LTD but no Delta tune; Includes **NightWatch™** fully illuminated display; Variable dim control; Tone control; Instant channel 9/19. Dim: 8.6"d x 6.3"w x 2.2"h, 4 lbs .. **$119.99**

29WXNW ST **AM Mobile CB Radio** – Same look and basic features as the 29NW but: has **SoundTracker™** system, 7 NOAA weather channels with Weather Alert tone..... **$129.99**

148GTL **40 channel AM/SSB CB Radio** – Full featured, 4 full Watts (AM) and 12W (SSB) RF power. Dual conversion AM receive; Adjustable Dynamike; Illuminated S/RF/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator; Digital LED readout; PA. Dim: 2.3"h x 7.8"w x 9.2"d; 5 lbs **$149.99**

HH-ROAD TRIP **40 Channel CB Handheld** – Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. **SoundTracker®** system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" alkaline or NiCads or from vehicle battery with the included DC cord and plug. Includes magnet mount mobile antenna.
Dim: 6.75"h x 2"w x 1.75"d **$79.99**

75WX ST **Compact/Remote CB Radio** – 40 CB channels and 10 Weather channels. A remote box installs out of sight and connects to the microphone with controls and full featured LCD display. Dual watch and full channel scan; Instant channel 9; Four memory channels; Key lock. Dim: 4.2"h x 2.7"h x 1.8"d; 1.85 lbs..... **$99.99**

MICROPHONE

HGM-77 **Noise Cancelling Microphone** – Designed for CB users who want to step up from their stock microphone. Features 9' High-Flex™ cord, Wire mesh grille, Heavy-duty ABS shell and 4-pin connector **$24.99**

RECOMMENDED CB ANTENNAS

COBRA

HGA-1000 – Base loaded magnet mount mobile antenna with coax and connector..... **$29.99**

HUSTLER

HQT – A 55 in. top loaded whip with Mirror Mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil. **$29.99**

HQ-27M – A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil..... **$39.99**

1C-100 – 44 in. base loaded magnet mount antenna (white color)..... **$23.99**

1C-11B – 42 in. base loaded trunk mount antenna (black color) **$14.99**

LARSEN

NMO-27C – Base loaded mobile, less mt. **$32.99**

NMO-TLP – Low-profile trunk mount for the NMO-27C. 17 ft. coax and PL-259 ..... **$29.99**

NMO-MMR – Magnet mount for NMO-27C. Comes w/12 ft. coax & PL-259 ..... **$32.99**

MIDLAND

18-258 – Through Window Mount Mobile CB Antenna. Power transfers thru-the-glass to outside element without wires. Overall length: 25-1/4 in. Includes coax & SO-239 connector..... **$19.99**

SOLARCON

A-99 – Base Antenna. Three-piece fiberglass design uses a 1/2-wave over a 1/4-wave section. Tunable, 3dB gain. Length: 17 ft. 8 in..... **$79.99**

GPK-1 – Ground plane kit for the Solarcon A-99 antenna. Adds 30% more power gain and produces a lower angle of radiation **$59.99**

WILSON

W-1000 – 5 ft. base loaded mobile antenna. Available in three mount configurations. All come with 18 ft. cable and PL-259 connector.

ROOF – thru-hole mount **$59.99**

TRUNK – mount..... **$66.99**

MAGNET – mount..... **$76.99**

LITTLE WIL – 38 in. base loaded magnet mount antenna **$39.99**

uniden CB RADIOS

PC-68XL 40-Channel CB Radio – Front microphone jack; Backlit controls; S/RF meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 7.6"w x 8.9"d x 2.6"h; 3 lbs ... **$74.99**

PC-68LTW – Same basic features as the PC68XL but with NOAA weather and alert..... **$79.99**

PC-78XL **40 Channel AM Mobile** – PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED Dim: 7.25"w x 8.63"d x 2.38"h; 4 lbs. 3 oz . **$94.99**

PC-78LTW – Same basic features as the PC78XL but with NOAA weather and alert **$99.99**

PC-78 ELITE **40-Channel CB with Ergonomic Pistol Grip Microphone** – Combines CB and a 7 channel Weather Radio with alert. Enhanced night vision display; Instant Channel 9; S/RF/SWR meter; RF and microphone gain; Delta tune. Switches for: S/RF/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control.
Dim: 7.6"w x 8.9"d x 2.6"h; 4 lbs. 3 oz ... **$119.99**

PC-68 ELITE **40-Channel CB** – Same looks and features as PC-78 Elite but no Delta tune and SWR. Dim: 6.2"w x 5.4"d x 2.1"h; 3 lbs. 11 oz ... **$99.99**

PRO-510XL **Compact 40 Channel AM Mobile** Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/RF LED meter. Dim: 4.5"w x 1.4"h x 7.5"d; 3 lbs.... **$39.99**

PRO-520XL **Compact 40 Channel AM Mobile** Looks like 510XL. Instant channel 9 access; 4-segment S/RF meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter.
Dim: 4.5"w x 6.8"d x 1.38"d; 1 lbs. 10 oz .. **$54.99**

PRO-538W **40 Channel AM Mobile** – Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker. Dim: 6.8"h x 2"w x 8.3"d; 2.6 lbs..... **$59.99**

uniden

MARINE RADIOS

ATLANTIS-250 Handheld 2-Way VHF Marine Radio All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability..... **$99.99**

VOYAGER Ultra Compact VHF Handheld Marine Radio – All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus™; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8"h x 2.4"w x 1.3"d; 8.8 oz. **$169.99**

MHS-350 Handheld Marine 2-Way VHF Radio – All USA/international and Canadian marine channels All N.O.A.A. weather channels with weather alert; S.A.M.E. (during a NOAA weather or emergency alert, a code will alert you to severe conditions in your immediate area); 1/5W output; Triple Watch Plus™ (monitor channel 16/9, another user selectable channel, plus WX alert); Large backlit LCD; Rubber grips and seal. Meets JIS7 waterproof specifications **$149.99**

SOLARA-DSC 25W VHF Marine Radio – Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector **$99.99**

OCEANUS-DSC Full Featured VHF Marine Radio – Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ – monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation..... **$139.99**

UM-525 25W Marine VHF Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring and NOAA emergency/weather alert with S.A.M.E. Bright 3 in. (diagonal) backlit LCD display; Built-in 30W loud hailer with intercom, PA and all preprogrammed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with DSC polling capabilities; Speaker microphone with one-touch channel 16/9 key and up/down channel select..... **$199.99**

UM-625C 25W VHF Marine Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring; and NOAA weather alert with S.A.M.E. Bright 2.2 in. (diagonal) daylight viewable Color TFT display that is viewable from any angle in sunlight. Rugged construction and highest rated receiver performance (85dB intermod nom.); built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with all DSC polling capabilities; Speaker mic. with one-touch channel 16/9 key and up/down channel select..... **$299.99**

ICOM MARINE RADIO

IC-M72 Marine VHF Handheld More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. Large capacity 2000mAH Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.06"w x 4.90"h x 1.8"d; 9.9 oz..... **$199.99**

Shakespeare®

MARINE ANTENNAS

396-1

4187 Ratchet Mount – Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads..... **$39.99**

396-1 Center-fed 1/2-wave Coaxial Sleeve Antenna – A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount..... **$89.99**

420

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna – Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259... **$84.99**

5101

5101 Centennial™ End-fed Antenna with Matching Stub – High-end features in an 8 ft. antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. Rated 50W, 5 MHz bandwidth with 6dB gain. One section; Brass and copper elements; Chrome-plated brass ferrule with standard 1 in. x 14 thread. Includes 15 ft. RG-58 cable with PL-259 connector. Use with 4187 ratchet mount **$69.99**

5206-C

5206-C End-fed Antenna, Matching Stub – Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount..... **$59.99**

5202 Collinear-phased 5/8 Wave Elements – A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount.. **$109.99**

5215

5215 Squatty Body™ VHF Marine Antenna – A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount..... **$49.99**

AIRCRAFT RADIOS

ICOM

A-24 NAV/COM Handheld
Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz, Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA weather channels. Record and play back conversations with the built-in recorder. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes long life 1650mAh battery pack. Dim: 2.1"w x 5.1"h x 1.4"d; 15.2 oz **$319.99**

YAESU

VXA-710 NAV/COM Handheld
Rugged compact cast magnesium case. Receives and transmits on COM frequencies for important communications, and also receives and displays NAV frequencies (including CDI). For non-aviation use it also receives FM broadcast, NOAA Weather and Business Radio Service (BRS) frequencies. Features include: 160 memory channels; Skip scan; Split channel operation; Alpha-numeric display; Back-lit keypad and display; One-touch emergency frequency access; Built in LED status/emergency light and Automatic noise limiter. Dedicated 121.5 MHz Emergency Frequency access key. a Full 5W TX output power (1.5W carrier). Totally waterproof and submersible. PC programmable. Includes 1400 mAh Li-ion battery pack, wall charger, antenna, belt clip, and headset cable.
Dim: 2.25"w x 3.75"h x 1.25"d, 9.9 oz..... **$349.99**

FRS/GMRS RADIOS

MIDLAND

GXT-650VP4 FRS/GMRS HTs
Features 22 channels (7 FRS/GMRS, 7 FRS and 8 GMRS) and including Weather Alert with automatic alert for severe weather and hazard information, 24/7. Has maximum FCC allowable 5W of power for up to 16 mile range in open areas with little or no obstructions. Hi/Med or Low power settings. Water Resistant; Auto Battery Save; Battery Low Indicator; Roger Beep. Uses 4 "AA" batteries (not included). Dim: 4.1"h x 2.4"w x 1.4"d. (Pair of Radios including Mic. Headset) Closeout **$79.99**

ICOM

IC-F21GM FRS/GMRS Radio
15 channels (7 shared FRS channels). Power: 4W with range up to 5 miles depending on the terrain. Preprogrammed channels allow out-of-box operation, only a simple license required. Dim: 2.1"w x 5"h x 1.5"d, 10.6 oz ..... each **$129.99**

GRE ANALOG & DIGITAL SCANNERS

PSR-100

PSR-300

PSR-500

PSR-200

PSR-400

PSR-600

PSR-100 Handheld Scanner – Frequency coverage 29-54, 108-174 & 380-512 MHz. Five pre-programmed bands: Marine, Fire/Police, Air, Amateur and Weather. Priority channel. 200 memories in 10 banks, SAME Weather alert with 10 FIPS area code memories and Skywarn function. Key lock for safety. Ten-digit channel and frequency display with all function indicators. LCD backlighting. PC programmable with cloning capability. External 9V DC power charge jacks, 3.5mm stereo earphone and cloning jacks. Includes flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.48"w x 5.7"h x 1.57"d; 0.48 lbs..... **$99.99**

PSR-200 Base Scanner – Affordable, with innovative features. Frequency coverage 29-54, 108-174, & 380-512 MHz. 200 memories and five pre-programmed bands for Marine, Fire/Police, Air, Amateur and Weather. Priority channel. Weather capability features SAME technology with 10 FIPS area memories and a Skywarn function. Scanning at 45 channel per second and sweeps at 80 steps per second. Up or Down search. Backlit LCD. Supports programming by a PC and unit-to-unit cloning. Rear panel 3.5 mm earphone jack. Includes a screw-in telescopic antenna and AC adapter. Dim: 8.27"w x 6.89"h x 2.36"d; 1.54 lbs **$99.99**

PSR-300 Handheld Triple Trunking Scanner – Latest technology includes coverage of the new 700 MHz band and upgradable CPU firmware to support future band changes. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Frequency steps include: 3.125, 5, 6.25, 7.5, 8.33, 10, 12.5 and 25 kHz. Has 1000 memory channels in 10 banks for trunking bank and channel combined conventional mode memory provides multi-tracking of Motorola (type I, II and hybrid analog system), EDACS wide and LTR. Includes CTCSS and DCS sub-audible encoded squelch modes. A spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches are available for Marine, Fire/Police, Air, Amateur and Weather. Weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Includes a flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.56"w x 5.7"h x 1.65"d; 0.53 lbs **$199.99**

PSR-400 Triple Trunking Desktop/Mobile Scanner – Loaded with features and wide coverage including the new 700 MHz band. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Multiple tuning steps. Has upgradable CPU firmware in support of future rebanding. Ten banks and 1000 channel memories for trunking bank and channel combined conventional mode memory. Multi-tracking of Motorola (Type I, II and hybrid analog systems), EDACS wide and LTR. CTCSS and DCS sub-audible encoded squelch. Spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches for Marine, Fire/Police, Air, Amateur and Weather. The weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Backlit keypad. Includes a BNC telescopic antenna, mounting bracket, AC adapter and DC power cord. Dim: 7.28"w x 2.16"h x 5.31"d; 1.74 lbs..... **$199.99**

PSR-500 Handheld Analog/Digital Trunking Scanner – Uses an intuitive Object Oriented User Interface for ease of use. Frequency Coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Spectrum sweeper function seeks out nearby RF sources. Supports Motorola Analog, EDACS, LTR and Digital APCO (9600 bps) trunking systems. CTCSS and DCS subaudible squelch coding. Weather alert function with SAME technology and SKYWARN features. The 1800 memories may be structured to preferred bank sizes. Save complete radio configurations within the radio for recall into main memory as needed. Supports Talkgroup and individual call monitoring. With P25 digital systems, Automatic Adaptive Digital Tracking adapts the digital decoder to the modulation format, then analyzes the signal and adjusts any subtle changes caused by multipath or fading without manual intervention. The Large backlit LCD displays four lines by 16 characters. Backlit keypad and programmable, multi-colored super bright LED; program the color for the channel received. Operates from four AA cells (not included) or external 9V DC. Includes BNC antenna, USB PC cable, belt clip and two alkaline and rechargeable battery cases. Dim: 2.56"w x 5.71"h x 1.65"d; 0.53 lbs **$499.99**

PSR-600 Advanced Trunking Scanner – Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Includes 1800 memories that may be dynamically structured to bank sizes you prefer. The large backlit LCD displays four lines by 16 characters. Backlit keys. Supported trunking systems include Motorola Analog, EDACS, LETS and Digital APCO (9600 bps). Weather alert function, SAME technology and Skywarn features. A spectrum sweeper function seeks out nearby RF sources. Operates from 13.8 VDC Includes telescopic BNC antenna, USB PC Interface Cable, AC adapter, DC power cable and DIN-E kit.
Dim: 7.4"w x 2.4"h x 5.6"d; 2.7 lbs **$499.99**

News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather, Racing and more! A selection of Handhelds, Base/Mobiles to fit your needs.

uniden Bearcat Compact Handheld Scanners

BC-72XLT Compact Handheld Scanner (Great for NASCAR) – 100 Channels/10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; 2 AA battery operation: Alkaline or rechargeable (charges while in the scanner). Dim: 2.75"w 4.5"h x 1.75"d; 6 oz **$99.99**

BC-95XLT Handheld Scanner with 800MHz Coverage – 200 Channels/10 Banks; Covers the "action" bands 25-54, 108-174, 406-512, 806-956 (excluding Cellular); 10 Programmable Search Ranges; 6 Preprogrammed Service Searches; Close Call™ RF Capture Technology; Priority Scan; Delay; Backlit Display. Dim: 2.75"w x 4.5"h x 1.25"d; 6 oz **$119.99**

BC-246T Handheld Scanner – 1600 Channels typical/2500 maximum; TrunkTracker III Technology (Motorola, EDACS and LTR systems); Covers 25-54, 108-174, 216-225, 400-512, 806-956 & 1240-1300 MHz (excluding Cellular); Dynamically Allocated Channel Memory makes It easier to program and use without wasting channels; Close Call™ RF Capture Technology; Alpha Tagging for Systems, Channel Groups, Channels, Search Ranges, and SAME Groups; S.A.M.E. Weather Alert (Specific Area Message Encoding) – during a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; 10 Custom Search Ranges; Preprogrammed Service Searches; Automatic Repeater Reverse automatically tunes to the Repeater Output Frequency when It finds a transmission on a common Input frequency; DCS/CTCSS; Rapid Decode instantly detects and displays the Subaudible Tone; Pager Skip eliminates transmissions on common pager Frequencies during Search and Close Call Operation; Channel Alert indicates when specified channels become active; Backlit Display adjustable to turn on when Squelch opens, or any key is pressed (or Manually); PC Control: includes a PC Cable to transfer information from your computer to scanner. Dim: 2.5"w x 4.5"h x 1.75"d; 6 oz **$219.99**

BCD-396T Compact Scanner – Continuous Band Coverage 25 MHz to 1.3 GHz (excluding UHF TV and Cellular); 6000 Dynamically Allocated channels; 400 cities preprogrammed; TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Close Call™ RF Capture Technology; S.A.M.E. Weather Alert; Fire Tone-Out; Alpha Tagging; 100 Quick Key System; Audio AGC; Automatic Digital Threshold; Search with Scan; DCS/CTCSS Rapid Decode; PC Control (Software Included). Dim: 2.4"w x 5.35"h x 1.22"d; 0.6 lbs **$519.99**

SC-230 Racing Sport Handheld Scanner with Race Track Operation – Covers: 25-54, 108-174, 216-225, 400-512, 806-956, 1240-1300 MHz (excluding Cellular); 1600 Channels/2500 maximum; Dynamically Allocated Channel Memory; Race Track Operation; Close Call™ RF Capture Technology; Alpha Tagging; Quick Key System Access; S.A.M.E. Weather Alert; 10 Programmable Search Ranges; 11 Preprogrammed Service Searches; Priority Scan; Attenuator cuts down on interference from strong, nearby signal sources; Delay; Backlight on Squelch; 2 AA battery operation, Alkaline or rechargeable (batteries can be charged while in the scanner); PC Interface provides both programming and remote control of scanner features from a PC (software included); On-Air Programming (separate transmitter required) makes programming multiple units a snap – just transmit the driver information using a PC and transceiver, and all scanners update at once. Dim: 2.9"w x 4.6"h x 1.4"d; 7.8 oz **$199.99**

uniden Base/Mobile Scanners

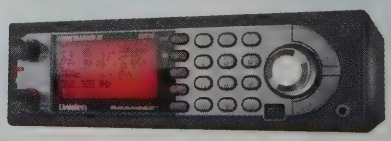
BC-340CRS
BC-370CRS

BC-340CRS CRS Clock Radio Scanner with 100 Channels in 10 Banks – Covers: 25-54, 108-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Radio; Alarm Clock with Snooze; Public Safety Scanner **$99.99**

BC-370CRS CRS Clock Radio Scanner with 300 Channels in 10 Banks Covers: 25-54, 108-174, 225-380, 406-512 MHz, 806-956 MHz (excluding cell). All Hazard alert; Atomic Clock; Service Search; Weather Scan; TV Audio 2-13; AM/FM Radio; Alarm Clock w/Snooze; Pubic Safety Scanner **$139.99**

BC-350C 800 MHz Base and Mobile Scanner Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; luminescent backlit LCD screen. Includes mounting bracket, AC adapter, DC power cable and vehicle power plug. Dim: 5.2"w x 1.6"h x 6.5"d; 1.6 lbs **$99.99**

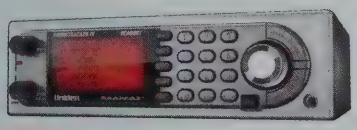
BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state; 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD. Dim: 7"w x 2.5"h x 6"d; 4.9 lbs **$179.99**



BCT-15 BearTracker™ Mobile Trunking Scanner with GPS Support – Alerts you to activity on Highway Patrol link frequencies within about 3 miles of your location. Close Call™ RF Capture Technology - tunes to signals from nearby transmitters. 2500 Dynamically Allocated Channels; Up to 400 Systems; 100 System Quick Keys; TrunkTracker III - EDACS, MOTOROLA, E.F. JOHNSON; Location-Based Scanning; Temporary Lockout; Dangerous Crossing, Dangerous Road and POI Alert; Public Safety Scanner **$239.99**

uniden

BC-898T 500 Channel Base/Mobile Scanner TrunkTracker III; Covers: 25-54, 108-174, 216-512 and 806-956 MHz (excluding cellular); 10 banks/50 channels; AutoStore; TrunkTracking™ (Motorola, EDACS & LTR); 1000 talk group ID's (10 lists/10 Banks); DCS/CTCSS; Conventional and trunked search; Programmable search and delay; Weather channels with S.A.M.E. alert; Priority scan. Includes AC adapter, DC Power Cable with auto power plug. Dim: 10.5"w x 7.3"d x 3.5"h; 3.8 lbs..... **$209.99**



BCD-996T Mobile Trunking Scanner with GPS Support & APCO-25 – 6000 Dynamically Allocated channels; Location-Based Scanning; APCO-25 Digital; 100 System Quick keys; Dual-Color Display; Temporary Lockout; Dangerous Crossing, Road and POI Alert; DIN-E Mounting; Multi-Site Trunking; Close Call™ RF Capture technology; Public Safety scan. Dim: 7.2"w x 5.9"d x 2.2"h; 3.4 lbs.....**$519.99**

ALINCO WIDE BAND RECEIVERS

AMATEUR RADIO'S VALUE LEADER™

DJ-X7T Wideband Receiver Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. The large, illuminated, easy-to-read LCD display shows frequency information, the operating mode and memory channel. Features include: 1000 memory channel, four user-selectable antenna choices (SMA flexible whip, internal AM and SW bar antennas, or the the earphone cable). Comes with an AC charger that can charge the supplied Lithium Ion battery and lets you listen at the same time. The DJ-X7T can also clone to other DJ-X7 units through an optional cable. Dim: 2.4"w x 4"h x 0.7"d, 3.7 oz..... **$169.99**

DJ-X30T Wideband Receiver Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. FM stereo mode is available via the earphone jack. 1000 alphanumeric memories in 10 banks, and 5 scan modes. Listen to AM, FM and TV stations, the shortwave world, aircraft, business communications, the ham bands, fire, public safety, traffic and more. A selectable illuminated LCD keyboard system allows you to easily enjoy many advanced features, including whether or not you want the keypad mounted on the radio. A menu of selectable parameter settings and the easy-to-use design enables customizing and programming frequencies to suit your individual preferences. Uses "AA" batteries. Includes belt clip, hand strap, face panel, SMA antenna. Dim: 2.28"w x 3.89"h x 1.24"d, 5.3 oz. **$199.99**

ICOM HANDHELD RECEIVERS

R-5-SPORT-06

R-20-06

R-5-SPORT-06 Super Wideband Handheld Receiver – Covers 495 kHz to 1309.995 MHz (cell blocked). Listen to AM/FM broadcast radio, police, fire, military, aircraft, amateur bands, and more. Preprogrammed TV and SW memories. Weather alert. Large, backlit LCD shows frequency, operating and battery status, signal strength and alphanumerics of the 1250 memories (200 auto-write scan and 25 scan edge pairs). DMS; CTCSS/DTCS; Internal bar antenna; PC programmable; Cloning; Weather resistant; AA battery case; DC jack. Dim: 2.25"w x 3.4"h x 1"d; 6 oz **$174.99**

R-20-06 Wideband Handheld Receiver – Covers 0.15 to 3304.99 MHz (cellular blocked), 1250 memories. Perfect for AM/FM radio, TV sound, monitoring boaters, aviation, conventional public safety and many other commercial services. Multiple scan functions with 100 ch./sec. scan and VSC which opens squelch only on modulated signal detection. Dual watch; Built-in 4-hour IC audio recorder; Auto squelch; CTCSS/DTCS & DTMF decode; RF gain and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; 11-hour Lithium-ion rechargeable battery. Dim: 2.28"w x 5.5"h x 1.22"d ..... ® **$484.99**

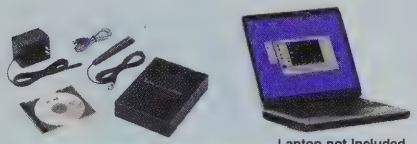
COMMUNICATIONS RECEIVER

R-75 HF + 50 MHz All Mode Communication Receiver – Covers 0.03 to 60 MHz, all modes, 101 memories. Conventional tuning and direct input via keypad. Alphanumeric readout with bar S-meter; DSP; Two-level preamp; Noise blanker; Twin passband tuning; Front speaker; Record output and tape recorder activation jack; High/low-Z antenna inputs; Filter options. Operates from 13.8V DC with optional OPC-869 DC cable or 110V with supplied AC adapter. Dim: 9.5"w x 3.75"h x 9"d; 6.6 lbs. **$599.99**

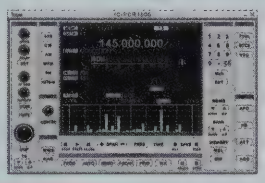
WIDE BAND RECEIVER

R-9500-02 Super Performance Multiple Function Wideband "measuring" Receiver Covers 0.005 to 3335.000 MHz (cellular blocked), in USB, LSB, CW, FSK, WFM & AM modes with 1020 alphanumeric memories. Multiple scanning functions. Many normal and wide spectrum scope functions display on the the 7-inch wide multi-function TFT LCD. Five roofing filters before the first amplifier, dual independent 32-bit floating point DSP processors and digital I.F. filter. Noise Blanker; Voice synthesizer; Digital Voice recorder; USB connector; Receive assist functions. Dim: 16.6"w x 5.8"h x 13.3"d; 44 lbs ..... Special Order **$13500.00**

WIDE BAND PC RECEIVER



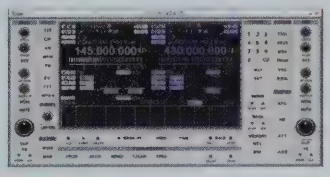
Laptop not included



Remote Control Head with R-1500-05 & R-2500-05

PCR-1500-25 Computer Controlled Wideband Receiver/Scanner – Connects to your Windows® 98SE/ME/2000/XP or Vista™ PC via a USB cable. Wide frequency coverage from 0.01-3300 MHz (less cellular). Modes of reception include AM, FM-Wide, FM-Narrow, SSB and CW. (CW and SSB up to 1300 MHz only). Up to 25 channel activities can be observed on the multi-channel monitor screen at a glance. Audio can be stored on the PC in WAV format. Choose from three different screens: "Communications Receiver" (shown), "Component-style" and "Compact". Includes CTCSS/DCS, pocket beep, IF shift, auto memory write, AFC, AGC, weather alert, 24 digit DTMF tone decoder and up to 2700 memory channels per file. An optional plug-in DSP unit provides Noise Reduction and Audio Notch Filter. Includes AC adapter, whip antenna, USB cable and software CD. Dim: 5.75"w x 1.6"d x 8.1"d; 2.6 lbs Free BON CS 4.5 Software ® **$479.99**

R-1500-05 Same as PCR-1500-25, but w/Remote Control Head.Free BON CS 4.5 Software ® **$579.99**



PCR-2500-25 – Simular to the PCR-1500-25, but features dual receive and is upgradable with the UT-122 digital decoder, UT-106 AF DSP unit and UT-108 DTMF decoder or UT-118 **D-Star** digital voice decoder ..... Free BON CS 4.5 Software ® **$709.99**

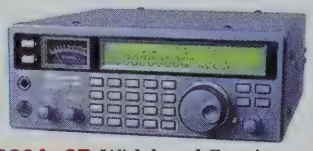
R-2500-05 – Same as PCR-2500-25, but with Remote Control Head. Free BON CS 4.5 Software ® **$879.99**

® Price after mail in rebate (USA only); rebates and freebies may expire 6/30/08.
Please call/web for current price and promotions.

AOR

AR-8200 MK III-B Compact Wideband Receiver – Covers 0.5–3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes. 1000 alphanumeric memories in 20 banks of 50 channels. Scan and search. High stability TXCO; Dual VFOs and twin frequency readout; Alpha display; Band scope; Bar signal meter; CTCSS decode; 20 second Record/Playback and voice inverter; Noise limiter; Attenuator; Computer control and programming capability. Includes: (4) NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM & telescopic whip antennas. Dim: 2.4"w x 5.7"h x 1.0"d; 0.75 lbs **$569.99**

AR-8600 MK II-B Wideband Receiver – Its extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Band scope; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and manual.
Dim: 5.9"w x 2.2"h x 6.9"d; 4.9 lbs..... **$899.99**



AR-5000A+3B Wideband Receiver – Ideal for professionals, top-end hobbyists, government departments and armed forces for its amazing sensitivity and strong signal handing capability. Covers 10 kHz to 2.6 GHz (less cellular) in AM, FM-N, FM-W, LSB, USB and CW modes with 2000 multi-function memories in 20 banks of 100 memories. Six bandwidths of 3, 6, 15, 30, 110 and 220 kHz. Sophisticated multiple scanning functions. Noise Blanker, AFC and AM synchronous detection. Operates on 12-16VDC @ 1A. Dim: 8.5"w x 4"h x 10.2"d, 7.8 lbs..... Special Order **$2599.99**

LA-380 Wide Band Active Loop Antenna – A wide range, 10 kHz to 500 MHz single loop active receiving antenna. Only 1 ft. in diameter. Five selectable presets and ranges. A built-in high-gain 20 dB amplifier for 10 kHz to 250 MHz and variable tuning from 3 to 40 MHz. Fixed tuning from 60 kHz to 3 MHz and 40 to 50 MHz. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12V DC or 110V using the supplied AC wall adapter..... **$379.99**

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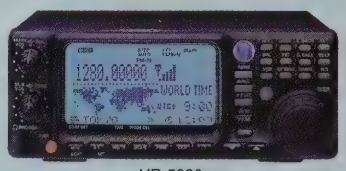

VR-5000

VR-500 PACK VR-120D PACK

VR-5000 Multi-mode Scanning Receiver
Covers 100 kHz to 2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumerics. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map.
Dim: 7.1"w x 2.8"h x 8"d; 4.2 lbs ..... © **$569.99**

VR-500 PACK Mini-Receiver
Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF TV bands, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries. Comes with FNB-79 NiCad battery and NC-60B wall charger.
Dim: 4.2"h x 2.2"w x 1"d; 7 oz..... © **$269.99**

VR-120D PACK Mini-Receiver
Covers 100 kHz to 1300 MHz (cellular blocked) in AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW, VHF/UHF TV, VHF AM aircraft plus commercial and public safety. 640 memories; Scanning; 4-button operation. Comes with NC-82 charger stand, CA-34 charger sleeve, PA-30B AC adapter and FNB-79 NiCad battery. Dim: 3.3"h x 2.3"w x 1"d; 6.9 oz..... © **$139.99**

© Price after Instant Coupon. Coupon may expire 4/30/08. Please call for current price and promotions.

Expanding your world of possibilities!

IC-R9500 Icom's Ultimate Wide Band Receiver

0.005 - 3335.000MHz* • USB, LSB, CW, FSK, FM, WFM, AM • 1020 Alphanumeric Memory Channels • P25 (Option UT-122) • Five Roofing Filters • Dual DSP • Digital IF Filter • Multi-function Spectrum Scope • 7-inch TFT LCD Display • Noise Blanker • Noise Reduction • Multi-scan Functions • Voice Synthesizer • Digital Voice Recorder • USB Connector • Receive Assist Functions

Now bundled with RadioCom 4.5

Icom's black box radios now come bundled with Bonito's RadioCom 4.5 software.

PCR1500

THE "BLACK BOX"

- 0.01 ~ 3299.99 MHz*
- AM, FM, WFM, CW, SSB
- Record and Save Audio as .WAV File
- USB Cable Connection
- Optional DSP

PCR2500

DUAL BAND "BLACK BOX"

- 0.01 ~ 3299.99 MHz* (Main) 50 to 1300 MHz* (Sub)
- AM, FM, WFM, CW, SSB
- Optional APCO 25 and D-STAR
- Dual Wideband Receivers
- Dual Watch PC Window
- Optional DSP

IC-R1500

MOBILE OR PC CONTROL

- 0.01 - 3299.99 MHz*
- AM, FM, WFM, USB, LSB, CW
- 1000 Memory Channels
- Fast Scan
- Optional DSP (UT-106)
- PCR Software Included

IC-R2500

2 WIDE BAND RECEIVERS IN ONE

- 0.01 - 3299.99 MHz*
- AM, FM, WFM, SSB, CW (Main)
- AM, FM and WFM (Sub)
- 1000 Memory Channels
- APCO 25 and D-STAR Compatible (Option UT-118)
- P25 (Option UT-122)
- Optional DSP

IC-R20

ADVANCED WIDE-BAND

- 0.150 - 3304.0 MHz*
- AM, FM, WFM, SSB, CW
- 1000 Memory Channels
- Dual Watch Receiver
- 4 Hour Digital Recorder

IC-R5 SPORT

COMPACT WIDE-BAND

- 0.5 - 1300.0 MHz*
- AM, FM, WFM
- 1250 Memory Channels
- CTCSS/DTCS Decode
- Weather Alert

IC-R75

WIDE-BAND RECEIVER

- 0.03 - 60.0 MHz*
- Triple Conversion
- Twin Passband Tuning
- Digital Signal Processing (DSP)

ICOM®

*Frequency specs may vary. Refer to owner's manual for exact frequency specs.

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GRUNDIG

GS-350DL DELUXE – Offers exceptional value and great reception of AM, FM and international shortwave. Incorporates an analog receiver with digital display of frequency and clock. A single-conversion superheterodyne circuit design, receives continuous shortwave from 2.9 - 27.4 MHz, covering all 12 international shortwave broadcast bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75 and 90 meters). A wide and narrow switch on the front panel allows you to narrow the radio's bandwidth to reduce adjacent channel interference. A new SW/AM frequency lock circuit improves stability to reduce drift. There is a built-in 12/24 hour clock with 90 minute sleep timer. Uses a built in telescopic antenna for FM and shortwave plus a built in ferrite bar antenna for AM. On the back panel there's a 75 ohm antenna jack for FM and terminals for AM/SW wire antenna and ground. Side left and right line level outputs and a stereo/mono switch and a stereo earphone jack for private listening. A 4 inch speaker provides solid sound. Comfortable carrying handle. Requires (4) D or AA cells (not supplied), includes an AC adapter. Dim: 12.5"w x 7"h x 3.5"d; 3 lbs, 9 oz. **$99.99**

GM-300PE AM/FM Shortwave Radio – Weighs less than 5 ounces and small enough to fit in your pocket making it a perfect travel companion. Covers AM, FM-stereo and 7 Shortwave bands (49, 41, 31, 25, 22, 19 and 16 meters). The telescoping and ferrite antennas provide great AM/FM reception for when camping, hiking, listening to sports, or just relaxing. Analog tuning with digital display that shows frequency, time, sleep time and symbols for sleep timer and alarm activation. Includes protective pouch, belt clip and stereo earbuds. Powered by (2) AA batteries. Dim: 2.5"w x 4.5"h x 0.75"d; 4.5 oz. **$29.99**

G-1100 AM/FM SW Radio – It's small enough to fit into your pocket, and capable of receiving AM/FM and 10 shortwave bands. Analog tuning with digital frequency LCD. Clock with alarm/snooze. Stereo via headphones. Uses (2) AA cells, includes protective pouch and earbuds. Dim: 5.12"w x 3.15"h x 1.14"d; 7 oz. **$49.99**

E-100 Compact Portable Digital Radio – Covers: AM (520 to 1710 kHz), FM (87 to 108 MHz) and Shortwave (1.711 to 29.995 MHz). Tunes via keypad entry or fine-tuning knob. It stores up to 200 of your favorite stations. Built-in digital clock with dual timers and snooze. Signal and battery indicator. Stereo/Mono switch; Tuning bargraph; Backlit LCD; Earphone jack; 3.0 VDC input jack; Flip stand. Includes wrist strap, protective case, and stereo earbuds. Powered by (2) AA cells. Dim: 5"w x 3"h x 1.25"d ..... Closeout **$99.99**

G-5 World-Class Portable Radio – Covers AM, FM and shortwave. Dual conversion AM/SW circuitry for exceptional sensitivity and image rejection. Tuning is via auto-scan, manual scan, conventional tuning knob or direct keypad entry. Includes S.S.B. (Single sideband) reception and FM stereo is available through the earphone jack. 700 channel memory capacity with memory scan and auto tuning storage. 24 hour clock with alarm and sleep timer. Line Output jack for a tape recorder or external audio amplifier. The LCD display can be illuminated three different ways. Includes: Local/DX Switch, Wide-Narrow selectivity and external antenna jack. Requires (4) AA cells (not supplied), or supplied AC wall adapter/charger. Built in battery charger. Carrying strap, and carrying pouch. Dim: 6.625"w x 4.125"h x 1.125"d; 12.2 oz..**$149.99**

G-6 FM/AM/Aircraft Band/Shortwave Portable Radio – The Aviator. Covers AM, FM, Aircraft Band (117-137 MHz) and Shortwave (1.711 to 29.995 MHz). Advanced dual conversion, includes Single Side Band (SSB) reception. Digital tuning with digital frequency readout (LCD) and 700 memories with 4 character page naming. Tune in to AM, FM, the VHF aircraft band or shortwave frequencies easily with direct keypad entry. Or use the AUTO tuning feature to browse stations and stop on the next available frequency. You can also use "D5" tuning to get a taste of what's playing—stop on the next available frequency for five seconds at a time. International clock and wake-up alarms. Power source: 2 AA batteries (not included); 2 AA rechargeable Ni-MH batteries (not included); AC adapter (included). Dim: 4.9"w x 3"h x 1.2"d; 7.3 oz **$99.99**

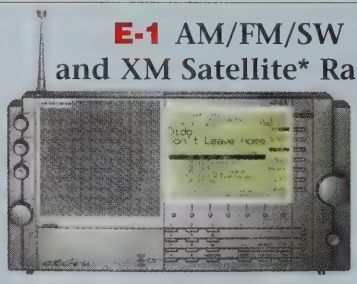
FR-250 Emergency Radio – Receives AM (530-1710 kHz), FM (88-108 MHz) and 7 shortwave bands. Powered from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, emergency siren and cell phone charger. Main tuning knob with a precise fine-tuning control. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar **$49.99**

FR-300 Emergency Radio – Looks, features and functions same as the FR-250. Does not cover SW bands but includes TV-VHF audio channels 2-13 and 7 NOAA weather channels with WX Alert C/O **$39.99**

FR-400 Emergency Radio - An affordable portable that receives AM (530-1710 kHz), FM (88-108 MHz), VHF TV audio and 7 NOAA weather channels. Versatile – powered from the crank generator which charges the supplied NiMH cells, (3) AA cells (not supplied) or 4.5 VDC from the included 120V AC adapter. Cranking at two turns per second for 90 seconds will provide 40-60 minutes of operation. Built-in the side of the radio is a triple LED light. Two white LEDs provide illumination, and a blinking red LED is for signaling. Additionally, there is a loud siren function. Three rear panel jacks are provided for earphone output, 4.5 VDC input and phone charger output. The FR-400 has the capability of recharging certain cell phones using included cellular power adapters. Includes a black canvas carry case, AC adapter, owner's manual, Red Cross Disaster Preparedness Guide.
Dim: 8.7"w x 4.5"h x 2"d; 1.3 lbs..... C/O **$49.99**

2008 PASSPORT to World Band Radio
Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular world and radios, many antennas, and expanded station address lists. 592 pages.
IBS 2008 **$22.95**

E-1 AM/FM/SW and XM Satellite* Radio



**XM Radio requires a subscription and XM antenna, not included*

Covers 100 kHz–30 MHz LW, MW, SW & FM (88-108 MHz) in AM, FM, SSB/CW modes, plus **XM Satellite Radio*** providing over a 100 channels of Music, News, Talk, and Sports programming. Dual conversion with digital PLL tuner and synchronous detector. Variable rate tuning knob, Direct keypad, Up/down buttons or Auto-tuning, Memory scan of with 500 user programmable alphanumeric plus 1200 user definable memories. Illuminated, 5.5 inch dot-matrix display; LCD S-meter; I.F. passband tuning; Dual programmable clock (WWV auto-setting); On/off timers; Stereo at headphone jack. Uses (4) "D" cells or included AC adapter. Dim: 13.1"w x 7"h x 2.5"d; 4.2 lbs **$499.99**

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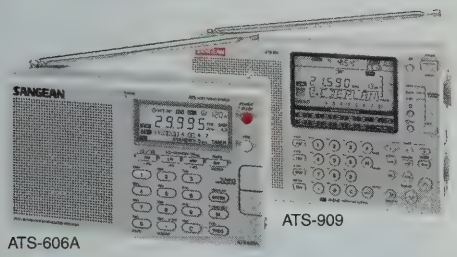
SANGEAN™

ATS-404

ATS-404 PLL Synthesized World Band Receiver Coverage: AM, FM (stereo with earphones) and 14 SW bands (2.3–26.1 MHz). Tune via Up-Down buttons, Automatic scan Keypad or 45 Memory presets. Backlit LCD, 12/24 hour clock-timer with alarm and snooze. Low-battery indicator, lock, dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5"w x 4"h x 1.5"d; 10 oz..... **$79.99**

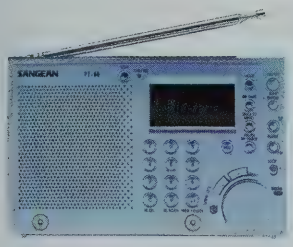
ATS-505 PLL Digital World Radio – Coverage: LW, AM, FM (stereo via earphones) and SW (1711 kHz to 29.999 MHz). Tunes via Manual tuning knob, Up-Down buttons, Scan, Keypad, or 45 memories. SSB reception, auto preset System lock, tone control, local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5"w x 5.3"h x 1.6"d; 24 oz.. **$129.99**



ATS-606A

ATS-606A PLL World Band Receiver – Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD, 54 memories, scanning fine tuning, dual digital clock-timer-alarm, FM stereo with earphones. Uses (3) "AA" batteries. Includes wind-up antenna, AC adapter and earbuds. Dim: 5.75"w x 3.5"h x 1.25"d; 1 lb..... **$139.99**

ATS-909 PLL World Band Receiver – Coverage: LW, MW, FM and SW (1711 kHz to 29.999 MHz). Tunes via: Manual knob, Keypad, Auto scan, Up-down tuning or Memory recall. SSB & CW reception, wide/narrow switch. Stores 307 presets in alpha memories. RDS display of station name/time. Clock with 12/24 hour time, (3) timers and sleep timer; displays 42 city times. Recorder output. Uses (4) "AA" batteries. Includes AC adapter, wind-up antenna, stereo earbuds and carrying case. Dim: 8.5"w x 5.375"h x 1.375"d; 1.9 lbs . **$249.99**



PT-80 ProTravel – German designed and radio-engineered by Sangean. This great looking travel radio has all the features a traveler will ever need. AM, FM, Longwave, and continuous shortwave coverage from 1711 to 29,999 kHz with SSB capability. Five tuning methods: Direct frequency access, Auto scan, Manual tuning, Memory recall from 45 presets, and Rotary tuning. Built-in 12/24 dual world time clock with alarm, snooze, and sleep timer. Snap-on leather case, AC adapter, earphone, and SW antenna included. Uses (4) "AA" batteries. Dim: 7"w x 4"h x 1.0"d; 1 lb. 2 oz..... **$159.99**

RCR-2 Digital Atomic Clock Radio – A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5"w x 3"h x 5.25"d; 2 lbs..... **$69.99**

WR-1 High Fidelity Radio – This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The walnut and black cabinet will accent any room. Headphone, record out & 12VDC input jacks. Dim: 9.4"w x 4.4"h x 6.6"d; 5.18 lb **$99.99**

WFR-20 Wi-Fi Internet Radio – You can listen to over 6000 Internet Radio stations (over 20,000 on-demand streams) in 250 locations from 60 genres. Operation requires a broadband wireless Internet (802.11b/g) or wired Ethernet (10/100 Mbps, RJ-45) network connection to connect into your wired or wireless home network. It also has a feature called "Network Music Player" which taps into the music stored on your PC using Windows® Media Player®. Supported sound formats include: MP3, WMA, AAC, AIFF, FLAC, Real Audio and AU. Features: 12 radio station presets; built in 12/24 hour clock with four alarm timers and sleep timer; bass and treble controls; three-line alphanumeric display. Intuitive menu system operates from single rotary control knob or full function remote control. Great sound from the acoustically tuned wooden cabinet housing two high quality 5 inch full-range stereo speakers. With the Network Music Player function a listener has access to their digital music library in any room in the house with no additional wires using their Wi-Fi network. Rear 3.5mm jacks for auxiliary input (iPod, MP-3 player, etc), earphone output jack, line output jack and RJ-45 Ethernet. Note: does not tune conventional AM/FM broadcasts. Dim: 11.5"w x 4.5"h x 9.5"d..... **$279.99**

HD Radio™

HDR-1 Tabletop HD Radio – Experience the new crystal-clear, distortion-free technology that gives you CD quality FM and FM quality AM reception. Discover the hidden stations providing trend setting programming such as live concerts, in-depth interviews and new undiscovered bands. Covers: FM 87.5-108 MHz and AM 520-1710 kHz, has 20 memory presets, and features a wood grained, acoustically-tuned wooden cabinet that creates improved bass response and realistic acoustic reproduction. Includes a clock with sleep timer, snooze, and dual alarm with Humane Waking System – a choice of a soft gentle buzzer with gradually increasing volume, or your favorite local station. An AUX-input allows connecting a MP3 or DVD player. A IR Remote Control allows convenient operation of all functions and station scanning. The Backlit LCD Display shows Channel No., Channel Frequency, Ensemble Label, Service Label, Dynamic Label, Transmission Mode, Data Rate, Secondary Service Availability and Clock functions. Additional features: Auto Tuning System (ATS); Auto Preset System; FM RDS (TBC); Automatic Multiplex Re-configuration; Analog Only Mode; Split Audio Mode; Tone & Bass Control EQ Pre-sets; Multicast Capability; Program Associated Data (PAD); Hybrid and Full Digital Radio Reception; Headphone jack. Includes the AC power cord, external AM & FM antennas and remote.
Dim: 4.5"h x 11.5"w x 7.5"d, 6 lb, 9 oz....**$199.99**

HDT-1 Component HD Tuner – An FM (87.5-108 MHz) and AM (520-1710 kHz) HD Radio tuner with multi-casting reception. Add it to your home audio system, and experience the crystal-clear sound and expanded listening choices of HD Radio programming. Gain access to the new, free digital programming where you'll hear a big improvement in sound fidelity; FM approaches CD-quality, and AM sound rivals current FM quality. The HDT-1 also receives standard analog broadcasts. Text information such as station IDs, artist names, and song title plus a clock displays on the LCD screen.
Features: 40 station presets (20 FM, 20 AM); External AM and FM antenna input; Signal strength meter; Backlit LCD display; RCA stereo line-level output drives your system amplifier; IR remote control. Dim: 16.9"w x 2.8"h x 10"d, 5.6 lbs **$199.99**

DT-200VX Broadcast & TV Band Receiver – About the size of a pack of cigarettes, fits in your shirt pocket and receives AM, FM and FM stereo, plus VHF television audio. Coverage: 520-1710 kHz, 87.5-108 MHz and VHF TV channels 2 to 13. Store favorite stations in 19 memories. Tunes via Up and Down button and Scan Tuning will search the bands for you and stop for 3-4 seconds on each active signal. Backlit display; Clock; Bass boost; Belt clip; Built-in speaker; Stereo-mono switch; 3.5mm earphone jack; Light-weight stereo earbuds. Requires (2) AA cells (not supplied). Dim: 4.2"h x 2.5"w x 1.5"d, 3.8 oz. without batteries..... **$64.99**

RCA SuperRadio III

AM/FM Portable

This model was produced for many years by General Electric and recently acquired by RCA. A long time favorite among medium wave DX-ers.

Covers 530-1700 kHz and 88-108 MHz with analog tuning. Designed for long range AM and FM reception featuring tuned RF on both AM and FM for excellent sensitivity and optimum selectivity. Four IF tuned circuits on AM and three on FM; a wide/normal switch selectivity control. The 6-inch speaker and 2-inch tweeter provide very good audio quality when compared to other AM/FM portables. Other features: FM-AFC; separate bass and treble controls, mono mini earphone jack, fold-down carrying handle; powerful built in 7.8 in. ferrite rod antenna; terminals for external AM & FM antennas. Operates from 120V or (6) D cells (not supplied). Dim: 12.5"w x 8"h x 4"d; 5 lb..... RP-7887 **$59.99**

SONY World Band Portables

ICF-SW11 Compact Analog Portable *(left)* Coverage: LW, MW, FM and nine shortwave bands. Analog tuning with LED tuning indicator; FM stereo via headphone jack; 2-1/4 inch speaker; DC input jack; Flip stand; Wrist strap. Uses two "AA" batteries or 3 VDC. Dim: 6.5"w x 3.75"h x 1.3"d; 12 oz..... Closeout **$49.99**

ICF-SW35 Digital Portable *(right)* – PLL synthesized, covers LW, MW, FM and 2250 kHz to 26.1 MHz shortwave. FM stereo at headphone jack. Tuning via: UP/DOWN buttons, 50 memory presets or memory scan. Dial illumination button; Sleep button; Lock switch; 9/10 kHz MW step switch; 2-1/4" speaker; Attenuator; Tone; Flip-stand. Uses three "AA" batteries or 4.5 VDC. Includes: cloth carry case, wrist strap. Dim: 6.7"w x 4.5"h x 1.4"d; 16 oz..... Closeout **$89.99**

ICF-SW7600GR Portable – Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo via headphone jack. LCD readout. Tuning via: keypad, manual, auto scan and 100 memory scan. SSB/CW mode and AM synchronous detection. LED "tune" indicator; dual time clock with sleep timer; Record jack; Tone switch; 3 in. speaker; External antenna jack; Uses four "AA" cells or 6 VDC. Wind-up antenna, wrist strap, case. Dim: 7.6"w x 4.75"h x 1.3"d; 22 oz.....**$159.99**

MFJ

8100W Regenerative Shortwave Receiver Listen to international shortwave broadcasts and hams on SSB/CW and more. Coverage: all or part of 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15 and 13M in 5 bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Requires 9V battery, earphones or plug-in speakers. Dim: 7"w x 2.5"h x 6"d; 1 lb..... **$109.99**

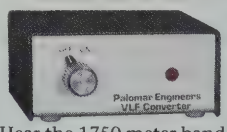
8100K Same, but in KIT form..... **$79.99**

306 AM/FM/SW Converter – Works with your car radio to add 19, 25, 31, and 49M SW broadcast band reception. Simple install – plug-in the car's radio antenna, insert the 306 cable into the radio and connect 12VDC. Dim: 5"w x 1.5"h x 3.5"d..... **$109.99**

ANTENNA SUPERMARKET — SHORTWAVE RECEIVING ANTENNAS

EAVES TWIN The *Eavesdropper* Shortwave Broadcast Receiving Antenna – A 42 ft. long center-fed dipole with 8 automatic switching trap circuits which electrically separate the antenna segments to cover the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60 and 75 meter short wave bands. May be installed as a "sloper", horizontal dipole or inverted "V". Includes a twin lead ZAP TRAPPER® electronic gas-tube lightning arrestor for receiver protection. Completely assembled, ready to use. Uses heavy 14-gauge hard drawn stranded antenna wire and includes 100 ft. of 72Ω twin-lead transmission line and 50 ft. of 450# test support rope..... **$99.99**

EAVES SO239 – Same as the **Eaves Twin**, but does not include the twin-lead. Has a coaxial ZAP TRAPPER® protector and center insulator with SO-239 connector for 50/75Ω coaxial cable (not included).... **$99.99**



PALOMAR ENGINEERS

VLF Converters

Hear the 1750 meter band, the navigation beacon band, WWVB, ship-to-shore communications, and the European LF broadcast band.

The VLF receives the entire 10 to 500 kHz VLF radio band and converts it to tune across 80 meters on a general coverage receiver or ham band transceiver. Dim: 2"h x 4.25"w x 5"d.

VLF-A – Ham Band version..... C/O **$89.99**

VLF-S – General Coverage version. C/O **$89.99**

MFJ ACTIVE ANTENNAS & PRESELECTORS

1024 Outdoor Active Antenna – Covers 50 kHz to 30 MHz. A separate RF amplifier with a 54 in. whip antenna mounts remotely away from electrical noise for maximum signal. It connects by the supplied 50 ft. coax to an inside control with 20 dB attenuator, gain control, ON LED and a switch that selects two receivers and auxiliary or active antenna. Dim: (control) 6"w x 3"h x 5"d; (remote) 3"w x 2"h x 4"d. 12VDC or 110VAC with an MFJ-1312D adapter.. **$149.99**

1020C Indoor Active Antenna – Covers 0.3 to 40 MHz with a 21 inch telescoping antenna and dual gate MOSFET & gigahertz bandwidth buffer that improves gain and selectivity, reduces noise and intermod. An effective preselector when used with an external antenna system. Uses 9V battery, 9-18VDC or 110V with an MFJ-1312D adapter. Dim: 6"w x 2"h x 5"d..... **$99.99**

1022 Compact Active Antenna – Covers 0.3 to 200 MHz. Improves the reception of international shortwave, ship-to-shore, airline, commercial RTTY, etc. Improves scanner radio reception from high to low band VHF. The J-310 FET and MRF-901 devices give excellent low noise reception using the 20 in. telescoping antenna. Has on/off switch, power on LED. Uses 9V battery or 110 VAC with MFJ-1312D. Dim: 3"w x 1.25"h x 4"d..... **$69.99**

1040C All-Band Preselector – Boosts signals while rejecting out-of-band signals and images from 1.8 to 54 MHz. Utilizes a low-noise, high gain dual-gate MOSFET amplifier. Push-button switches for two receivers, two antennas, attenuator and ON/BYPASS. Usable with transceivers up to 125W (automatic bypass on TX), bypassed when off. Uses 9 to 12VDC or 110V with an MFJ-1312D. Dim: 6.5"w x 2.5"h x 4"d **$119.99**

1046 Passive Preselector – Covers 1.6 to 33 MHz, receive only, passive (non-amplified). Improves the performance of nearly any HF or shortwave receiver. Eliminates phantom signals, intermod, blocking and cross modulation caused by strong out-of-band shortwave broadcast signals mixing and producing unwanted in band signals. Protects your sensitive receiver input from damage caused by very strong local signals Dim: 7.5"w x 2.5"h x 3.25"d... **$109.99**

1048 Passive Preselector – Same as 1046, but a RF sensed TX/RX switch with adjustable delay automatically bypasses on transmit ... **$129.99**

GARMIN®
GPS CLOSEOUTS

GPS-60 GPS-MAP60 GPS-72

GPS-60 Personal Navigator – A 12 channel GPS receiver with WAAS. Accepts 1 Mb downloaded points of interest from MapSource® CD-ROM. Separate USB and serial port interfaces. Points of Interest data; Stores 500 waypoints and 50 routes; 10,000 points track log to retrace your path; TrakBack™ to a selected point function; Celestial tables for best fish and hunt times; Audible beeper alarm; Up to 28 hours on 2 AA alkaline batteries. Dim: 2.4"w x 7.1"h x 1.3"d..... C/O **$149.99**

GPS-MAP60 Map Navigator – 12 channel GPS receiver with WAAS. Basemap with automatic turn-by turn routing capability shows cities, interstates, major roads and more. Download 24Mb of data from optional MapSource® CD for greater map detail. Includes MapSource® Trip and Waypoint manager for transferring waypoint, route and track data between your GPS and PC. Stores 500 waypoints and 50 routes; 10,000 point tracklog to retrace your path; TracBack™ to selected point function; Celestial tables for best fish and hunt times; Audible beeper; Up to 28 hours on 2 AA alkaline batteries; Separate USB and serial port interfaces. Dim: 2.4"w x 7.1"h x 1.3"d.... C/O **$199.99**

GPS-72 – A low-cost, but precise land and marine positioning using WAAS data. 500 name and graphic waypoints, 50 reversible routes; Backlit high-contrast, gray-scale display with "large number" option; Latitude/Longitude, UTM, Loran TDs, Maidenhead, MGRS and user grid formats; Arrival, off-course, clock and proximity alarms; 1 MB memory for MapSource data; Trip computer with odometer, stopped time, moving and overall average, total time, maximum speed..... C/O **$119.99**

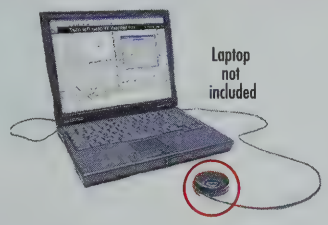
RINO-120 GPS Enabled Handheld for FRS & GMRS
Communicate up to 2 miles using the FRS radio function, or 5 miles, using GMRS. 14 channels, 38 squelch codes; VOX; Voice scrambler; "Silent" call mode. The 12-channel GPS function provides position accuracy of less than 10 ft. and position reporting using FRS Waypoint storage, TracBack, multiple position formats and built-in trip computer. Basemap of the Americas (major cities, highways, thoroughfares, rivers, lakes, coastlines, borders, and railways); 8MB memory for downloadable cartography from MapSource CD-ROMs; Uses 3 AA's.... C/O **$189.99**

GA-27C Low Profile Remote Automobile GPS Antenna
This small, waterproof GPS antenna enhances the performance and reliability of your GPS unit. Comes with a magnetic mount for the outside of your vehicle, and a suction cup mount that holds antenna in place against the inside of your windshield. Comes with 8 ft. of cable. Dim: 0.7"h x 2"w x 2.7"d ..... C/O **$79.99**

FORETREX 101 FORERUNNR 201

FORETREX 101 Personal GPS Navigator
Rugged, lightweight, waterproof and wristband mounted for the sportsman. Provides accurate position data, extensive waypoint storage, reversible routes, track info, and TracBack technology. PC waypoint, route and track management. Uses (2) AAAs, 15 hours of operation.
Dim: 3.3"w x 1.7"h x 0.6"d; 2.6 oz.. C/O **$119.99**

FORERUNNR 201 GPS/Personal Training Device – For athletes, runners and walkers. Calculate speed, distance and pace. Mark locations, look up and navigate to points, retrace or reverse normal route. Downloadable performance-tracking software to analyze activity over time. Transfer data to a PC, for review. Includes wristband, A/C charger with PC interface, manual and quick start guide. Dim: 3.3"w x 1.7"h x 0.6"d; 2.75 oz C/O **$139.99**

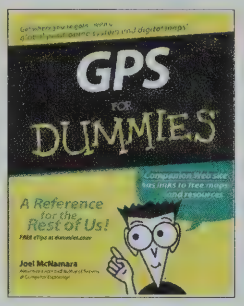


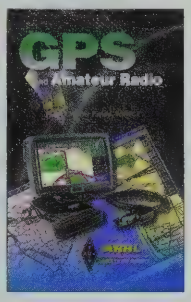
GPS-18 Package – Turns a laptop into a street navigator using WAAS-enabled GPS sensor. Bundled with nRoute™ and City Select® North America with detailed maps of the U.S. and select cities in Canada. Guides with turn-by-turn directions and voice prompt. Dim: 2.4" dial. x 0.75"h; 6.5 oz

GPS-18PC DLX – Serial connection sensor, 12V cigarette adapter, magnetic base, windshield mount and software ..... C/O **$119.99**

GPS-18USB DLX – USB sensor, magnetic base, windshield mount and software..... C/O **$119.99**

GPS PUBLICATIONS



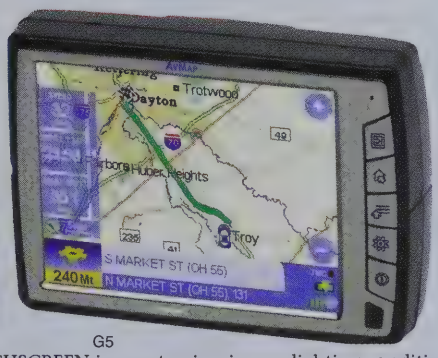


GPS for Dummies
A full 23 chapters of information on what outdoor enthusiasts and travelers need to know about choosing and using a GPS (global positioning system) receiver; making and using digital maps, including topographic and three-dimensional maps; basic cartography principles; using a PDA or cell phone as a GPS receiver; and getting into the popular hobby of geocaching.
WIE GPSDUMMIES **$21.99**

GPS and Amateur Radio
by Walter Fields, W4WCF
Explore GPS: its history, how it works, and navigating with a GPS receiver. Also examine how Amateur Radio operators (or "hams") have made use of GPS technology. A popular ham radio application is in the Automatic Position Reporting System, or APRS. By connecting inexpensive GPS receivers to their radio gear, hams transmit their positions and other information, which is then displayed on maps at the receiving stations. The result is an effective method of direction finding for public service activities such as search-and-rescue—and for fun! Learn how GPS units and GPS technology is used in our cars, on our boats, in cell phones, in our personal computers and PDAs.
ARR 9922 **$18.95**

Offering Navigation, plus APRS Ready for these
KENWOOD
Transceivers

AVMAP GPS Navigator

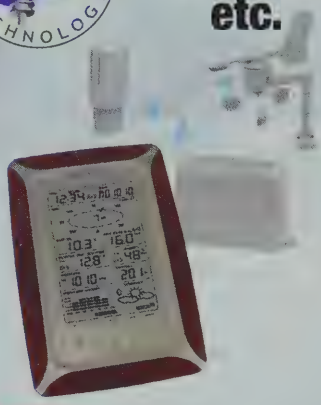


TH-D7A(G) TM-D710A G5

G5 – The ultra bright non-glare 5 inch TFT TOUCHSCREEN is easy to view in any lighting condition. Comes preloaded with highly detailed Tele Atlas street maps of North America on a 2 GB SD memory card and gives you color 2D and 3D views with turn by turn voice prompts in 14 different languages. Includes a Kenwood-ready cable and exclusive APRS interface built right into the G5. This bi-directional RS-232 APRS interface is balanced for ALL current APRS ready Kenwood Radios. Other features include: detachable 12v power cable, bi-directional NMEA 183 serial port, external antenna port, NTSC/PAL video and audio input, PC connection for software updates via USB port, off road, fastest route, and least turns calculations with turn details. Routing instructions include current road name and house number with road name and the next turn command. "Drive Me Home" rapid command. Intuitive touch screen address lookup with millions of points-of-interest. Includes all-in-one navigation and mobile navigation software, built-in speaker, lithium-ion rechargeable battery and car charger, SD memory card, and cables. Dim: 5.5"w x 3.9"h x 1.4"d, 0.86 lb **$649.99**

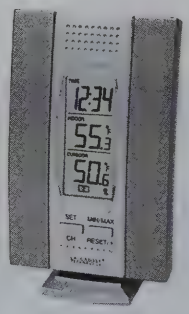
See the full G5 brochure at: www.avmap.it

WEATHER STATIONS, etc.



WS-1612CH-IT Professional Weather Center
Operates wireless at 915 MHz from a remote sensor up to 330 ft. away.
Provides:
- Weather forecasting function with 3 weather icons and weather tendency indicator
- Records MIN/MAX temperature and humidity with time and date of recording
- Low/high outdoor temperature & humidity alarm
- Relative air pressure (inHg or hPa)
- Barometric pressure with 12 hour history graph (in inHg or hPa)
- Storm warning alarm
- Total rainfall (inches or millimeters)
- Wind speed (mph, km/h or m/s, and Beaufort scale); Wind chill (°F or °C); MAX wind speed with time & date of recording; high wind speed alarm; 16-step wind direction display
- Storage of 200 sets of history weather data recorded in 3-hour intervals; manual reset
- Selectable LCD contrast, Low Battery indicator
- Dim: Receiver: 8.9"h x 6"w x 1.25"d; Thermo-hygrometer: 2.25"h x 2.44"w x 6.18"d; Rain Sensor: 5.51"h x 2.75"w x 5.39"d; Wind Sensor: 9.84"h x 6.45"w x 7.58"d **$139.99**

WS-7013BZ Wireless Digital Thermometer



Displays both indoor and outdoor temperatures (°F or °C) simultaneously. Outdoor temperature is transmitted up to 80 ft. to the main unit via a remote sensor which also has its own display for viewing at its remote location. Records minimum and maximum temperatures in memory; outdoor temperatures are time stamped. Includes a highly accurate Quartz Digital clock (not an atomic clock). Just install the included remote transmitter, and get both outdoor and indoor temperatures along with the time. Approx. 4.5" tall, desk or wall mount .. C/O **$19.99**

WS-7014CH Wireless Forecasting Station

Displays indoor and outdoor temperature plus indoor relative humidity. Forecast icons indicate Cloudy, Sunny or Rain. Wireless outdoor temperature sensor can be located 82 ft. away. Atomic Time clock. Uses (4) "AA" alkaline batteries. Dim: 5.43"h x 3.54"w x 1.18"d. Desk or wall mount **$49.99**

WS-450B Color Forecast Station
Features animated color weather graphs that make it easy to gauge the weather at a glance. Predicts the weather for the next 12-24 hours and displays a forecast icon based on the change of atmospheric pressure. The indoor/outdoor temperature and humidity displays include animated circular color graphs. Also displays the heat index and dew point.
- Comfort level indicator
- Memory function records MIN/MAX temperature, humidity, heat index and dew point
- 12 or 24 clock includes an alarm with snooze and automatically sets to the U.S. Atomic Clock, and adjusts for Daylight Saving Time
- Perpetual calendar
- Backlight with auto, high, low and off settings
- Remote sensor with range up to 246 ft.
- Power: Main unit (3) AAA alkalines or included 6.0 volt AC adapter; Sensor: (2) AAA alkalines
- Dim: 6.5"w x 3.5"h x 2"d..... **$69.99**

WS-9023U-IT Wireless Weather Station – Monitor indoor and wireless outdoor temperature and humidity, min/max temperature and humidity and 12/24 hour time. Wall hanging or desktop. Uses 2 "AA" batteries in the receiver and sensor. 915 MHz, 330 ft. range. Dim: 4.54"h x 1.14"d x 1.14"d... **$29.99**

WS-7394U-CH-IT
Wireless Forecast Station
Operates wireless at 915 MHz with a range of up to 330 ft.

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Outdoor temperature (°F or °C)
- Indoor temperature (°F or °C) and relative humidity %
- Records MIN/MAX temperature and humidity with time and date of recording
- Barometric pressure with 12 hour history graph; Barometric tendency arrow and Indoor comfort level icon
- Atomic time and date with manual setting; automatically updates for Daylight Saving Time (on/off option); 12/24 hour time display; Perpetual calendar; Time zone setting
- Receiver and Sensor both use (2) "AA" alkalines Dim: 8.75"h x 4"w x 1.5"d..... **$69.99**

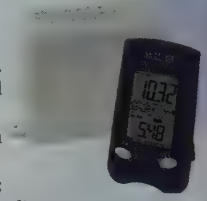
WS-8035U-SAL-IT
DLX Wireless Forecast Station
Comes with wireless outdoor thermometer and wireless outdoor relative humidity sensor with a 300 ft. range.

- Digital Relative Barometric Pressure Readout with 24-hour History Graph, Trend Arrow and Forecast Icon
- Indoor and Outdoor Temperature (F or C) and Humidity (%RH)
- Indoor Comfort Level Icon
- Min/ Max Temperature and Humidity with Time and Date Stamp
- Atomic Time and Date with Manual Setting
- Auto Update for Daylight Saving Time
- Time Alarm with Snooze
- 12 or 24 Hour Time, auto updates for DST
- Perpetual Calendar • Moon Phase Indicator
- Time Zone Setting, US Time Zone Map
- Receiver & Sensor use (2) AA alkaline batteries
- Dim: 10"w x 7.5"h x 1"d **$89.99**

WS-9080U-ITCBP Wireless Temperature Station (right) – Shows indoor temperature and outdoor temperature via sensor from up to 330 ft. away. Records MIN/MAX with time/date stamp. 12/24 hour Atomic clock; time and date sets automatically and adjusts for Daylight Saving time. Uses (2) "AAA" Alkaline and (2) "AA" alkaline batteries. Dim: 5.35"h x 3.74"w x 0.74"d **$29.99**

WS-9121U-ITCBP Wireless Thermometer (left) Shows Indoor temperature and wireless outdoor temperature from sensor located up to 330 ft. away. 12/24 hour time display. Uses CR2032 and (2) AAA alkalines. Dim: 4.66"h x 2.29"w x 0.69"d... **$19.99**

WS-9004U-IT
Wireless Rain Gauge
Wireless self-emptying bucket. Shows total rain and rainfall for the last 24 hours.



- User set rainfall alarm from .05 to 4" over 24 hours
- Current rainfall indicator; light rain and heavy rain indicators
- Remote sensor range: 330 ft.
- Receiver and sensor both use (2) AAA alkalines
- Dim: 3.85"h x 2.35"w x 0.83"d **$29.99**

EA-3010 Handheld Anemometer
Check local wind speed and temperature. Wind mode indicates digital maximum or average wind speed (mph, m/s, km/h, knots) digitally plus Beaufort on a 0-12 bargraph scale. Temperature mode shows digital temperature and wind chill. LED back light and auto-off. Weather Resistant Case, neckband. Powered by (1) CR2032 battery.
Dim: 4"h x 1.63"w x 0.7"d..... **$49.99**

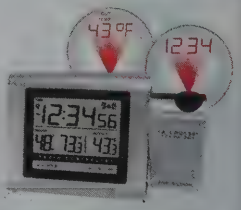
WS-8117U-OAK

WT-3102S

WS-8117UIT-OAK Digital Atomic Wall Clock
Shows 12/24-hour time, a perpetual calender, indoor temperature and outdoor temperature via a remote sensor up to 82 ft. away. Clock sets automatically via WWVB, has 13 time zone settings, daylight saving time and 8 moon phase icons. Alarm with snooze. Wall mount or free standing. Requires (4) "AA" alkaline batteries Oak finish. Dim: 12.2"w x 8"h x 1.18"d **$46.99**

WT-3102S Analog Atomic Clock – 10 in. diameter. Automatically sets time, accurate to the second and updates for daylight saving time. Four time zone settings. Uses "AA" alkaline battery... **$19.99**

WT-5120 Projection Atomic Alarm Clock



Displays 12 hour time, indoor temperature and humidity, plus outdoor temperature on its large LCD display. It alternately projects time and outdoor temperature on the ceiling or wall. Alarm and snooze. AC Adapter Included. Dim: 3.6"h x 5.52"w x 1.9"d..... **$39.99**

DAVIS

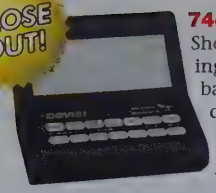
WEATHER STATIONS

Professional quality for home, business, or scientific use. Add WeatherLink for detailed, long-term analysis using a PC.

6152 Wireless Vantage Pro2 – It's the first weather station in its price range to use frequency hopping Spread Spectrum radio to transmit and receive data up to 1000 ft. line of sight. It still offers the same great features of Vantage Pro such as forecasting, on-screen graphing, and much more. Quick view icons show the forecast at a glance–sunny, partly sunny, cloudy, rain or snow– while a moving ticker-tape display gives more details. The integrated sensor suite combines a rain collector, temperature and humidity sensors, and anemometer into one package–making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat **$539.99**

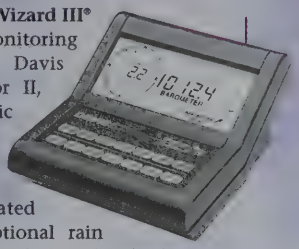
0281 Wind Wizard™ Wind Speed Indicator Accurately measures speed from 0-60 mph in miles per hour, meters per second, and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed. Dim: 3.625" x 2.875" x 1" folded; 2.5 oz . **$49.99**

CLOSE OUT!



7440 Weather Monitor II® Shows all weather monitoring functions and clock on a back lit 1.875" x 4.375" LCD display. Temperature readings of –50 to 140°F (outside), 32° to 140°F (inside); Wind calculations, including direction in 1° or 10° increments, wind speed up to 175mph, and high wind speed and wind chill to –134°F; Barometer measuring barometric pressure with memory recall and trend arrow; Indoor high and low humidity from 10%-90% (outside optional); Alarms for temperature, wind speed, wind chill, humidity, time and barometric trends. Dim: 5.25" x 5.875" x 3"..... Closeout **$249.99**

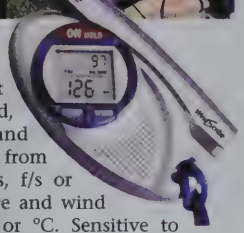
7425 Weather Wizard III® Offers most monitoring features of the Davis Weather Monitor II, except barometric pressure and inside humidity. Measure daily and accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM®-compatible or Mac®. Metric or U.S. Dim: 5.25" x 5.875" x 3"..... **$179.99**



7852 Rain Collector II – For 7440 or 7425. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable **$69.99**

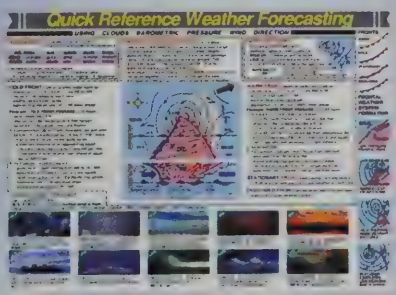
7400 Perception II® – Ideal for keeping track of climate conditions inside the home. No installation required. Looks similar to 7425; Indoor temperature -32°F to 140°F; Barometric pressure with memory recall; Humidity; Alarms for temperature, humidity, time & barometric change ..... Closeout **$99.99**

0276 Windscribe Ultrasonic Wind Meter – Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz **$99.99**



DAVIS Weather Forecasting Quick Reference Card

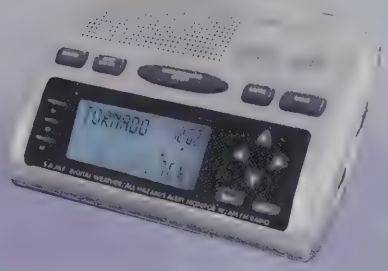
Side1 Side 2



Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog and other hazardous conditions, and more. Weatherproof, strong plastic, full color. Punched for binder or bulkhead mounting.Dim: 8.5 x 11 in ..... DAV 0131 **$9.99**

MIDLAND

WEATHER RADIOS



WR-300 AM/FM Alarm Clock Radio with 7-Channel Weather/All Hazards – For security, be alert to conditions that affect you. This unit offers Specific Area Message Encoding (S.A.M.E.) technology which preprograms the device to receive only those warnings that apply to your local area. You can choose state, county, and/or nearby counties. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Drift-free PLL and easy-to-read blue, backlit LCD. You get a convenient, 10-alert memory, and can add, edit, and remove unwanted alerts at any time. Operates from the supplied AC power adapter or (4) AA Batteries (not included) **$59.99**

74-250C
All-hazard Alert Handheld Weather Radio with S.A.M.E. Technology

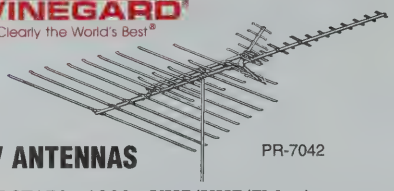
Get 24-hour, up-to-the-minute weather and hazardous-conditions information Receives all seven NOAA weather channels and has SAME (Specific Area Message Encoding) technology. Digital panel displays up to 56 messages. Includes a 12/24 hour dual alarm clock with snooze and nine memory settings. Built-in fahrenheit/celsius thermometer with freeze warning alert. Waterproof for outside use. Requires two "AA" cells (not supplied) and supports in-unit battery charging of two NiCD or NiMH "AA" cells (not supplied). Battery low indicator. Only 4"h x 2.75"w x 1"d **$49.99**

Weather for Dummies

Are you dazzled by dramatic displays of thunder and lightning – and wonder why these forces of nature occur? This guide offers easy-to-understand explanations about meteorological concepts, from jet streams to tornadoes and El Niño. Inside, you find experiments and activities you can do at home, plus insight on smog, the greenhouse effect, and more!

WIE WXFORDUMMIES **$21.99**

WINEGARD®
Clearly the World's Best®



TV ANTENNAS

PR-7042

PROSTAR® 1000 VHF/UHF/FM Antennas Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Protected with polymer finish.

PR-7032 **Far Suburban** – 33 active elements (13 VHF, 20 UHF); 103.25" boom . C/O **$89.99**

PR-7042 **Fringe** – 43 active elements (17 VHF, 26 UHF); 149.75" boom ..... Closeout **$149.99**

TV COAXIAL CABLE

TV-2900

RG-6 75 ohm TV Coaxial Cable – Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weatherproof F-connectors are installed on each end.

CX-0625 – 25 ft. length **$10.99**
CX-0650 – 50 ft. length..... **15.99**
CX-0675 – 75 ft. length..... **19.99**
CX-6100 – 100 ft. length..... **24.99**

TV-2900 **Matching Transformer** – Adapts 75 ohm coaxial cable with F-type connectors to a 300Ω TV antenna or TV set. Includes F connector and weatherproof boot..... **$2.99**

AUDIO/VIDEO CABLES

VANCO.

(A) (B) (C)

AC-3F **Audio "Y" Adapter** (A) – (1) RCA Plug to (2) RCA Jacks, Shielded, Red/White, 6 in..... **$1.99**

FF-3 **Video Cable** (B) – 3 ft. high quality TV/VCR cable made of low loss 75 ohm RG-59 cable with molded "F" connectors..... **$1.99**

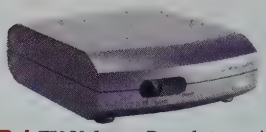
SPW-52 **Speaker Wire** (C) – 25 ft. 18 gauge, clear flexible jacket with polarity stripe..... **$8.99**

Velleman® Inc.

AUDIO/VIDEO SWITCHER

AVW-089 **3-Channel Audio/Video Switcher** Accepts audio and video input from three different sources. Select and switch them to a single output. Dim: 6.3"w x 1.2"h x 2.6"d, 3.5 oz. **$8.99**

TERK

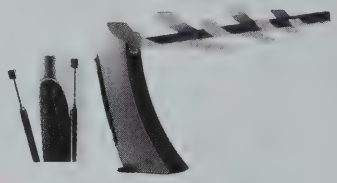


TV VOLUME REGULATOR

VR-1 **TV Volume Regulator** – Advanced DSP regulates TV volume level during loud commercial breaks, through loud or quiet scenes during a movie, while channel surfing, or when switching A/V devices. To install, connect a component (VCR or receiver) to your TV's audio/video input or run line-level audio from your TV to a separate receiver or audio system, with the VR-1 connected in-line. Set the volume you want, and operation is fully automatic. Built-in noise reduction cleans up audible "hiss" and noise. Bypass button allows hearing the full dynamic range. Uses standard RCA stereo audio connections, includes 6 ft. audio cable and AC adapter. Dim: 3.2"w x 1.25"h x 4.12"d... **$39.99**

COMPACT TV ANTENNAS

TV-55 **Amplified Out/Indoor TV Antenna** – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46"w x 3.5"h x 2.25"d..... **$99.99**



HDTV-I **Indoor UHF/VHF/HDTV Antenna** Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5"w x 9.1"h x 16.5"d; 42" high with dipoles extended..... **$39.99**

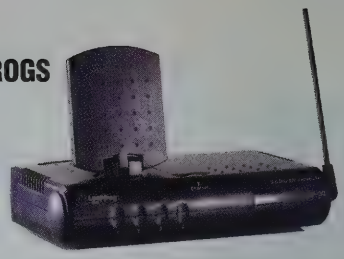
AM/FM ANTENNAS

TOWER **AM-FM Tower Antenna (left)** – Built-in amplifier with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter **$24.99**

ADVANTAGE **External AM Antenna (middle)** Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input..... **$49.99**

PI-B **Powered Indoor AM/FM Antenna (right)** Improves FM reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable AM loop enhances broadcast band reception. AC adapter included. Dim: 6"h x 6"w x 1.5"d. **$49.99**

LEAPFROGS



LF-30S **Leapfrog WaveMaster 30 Transmitter/Receiver System** – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 1.5"h x 7"w x 4.8"d..... **$99.99**

LF-IRX **Leap Frog Remote Control Range Extender** – Increases range capability of infrared remote controls. Provides the power to operate A/V components through walls and floors up to 100 ft. Operates on 418 MHz for wireless install. Simply plug base in near controllable unit, then plug the receiver in remote location. Cables and AC adapters included. Dim: 5"h x 2.5"w x 4"d..... **$39.99**

GROTHE
ELECTRONICS

VS-2 VS-3/VS-4

SIRENS & HORNS

VS-2 **Emergency Vehicle Siren** – For the volunteer fireman. A quality-built wail-yelp alarm that delivers a 120dBa sound level at 4 ft. with a frequency range of 600 to 1200Hz. Pre-wired with a 3-position switch (Yelp-Off-Wail). Includes a waterproof horn speaker, 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs..... **$89.99**

VS-3 **Vehicle P/A and Airhorn with Rebroadcast** Powerful airhorn sound with 4 different sounds (no siren) Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A..... **$129.99**

VS-4 **P/A Emergency Vehicle Siren** – Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A over-ride features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A..... **$139.99**

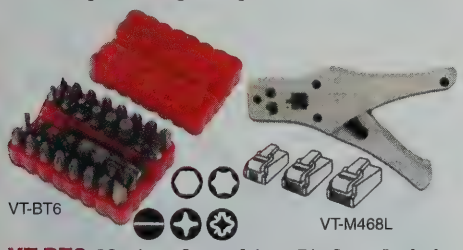
VS-2LS **Siren–Light Combo** A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light. Special Order... each **$299.99**

VTTS 25 Piece Multi-Purpose Toolset – A quality toolset for the electronic engineer and hobbyist. **Includes:** 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in **$9.99**
Bits: (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. **Sockets:** 4, 5, 6 and 8mm 1/4" drive. **Precision screwdrivers:** 4 slotted, 2 Phillips. **Pliers:** 4.5" mini diagonal, 5" mini long nose

VT-SET21N 8-in-1 Screwdriver Set – Includes 4 Phillips and 4 slotted screwdrivers. Each screwdriver fits into the handle for greater torque..... **$4.99**

VT-SET3N 6-Piece Electronics Screwdriver Set Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle **$9.99**

VT-SET Stainless-steel precision Pliers set. 5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers..... **$9.99**



VT-BT6 33 piece Screwdriver Bit Set – Includes **Hex:** #2, 2.5, 3, 4, 5, 6; **Star:** #T10, T15, T20, T25, T30, T40; **Flat:** 3, 4, 5, 6, 7; **Phillips:** 1 PH0, 2 PH1, 2 PH2, 2 PH3; **Pozzi:** 2 PZ1, 3 PZ2, 2 PZ3; **Magnetic bit holder:** 14" hex..... **$6.99**

VT-M468L Crimp Tool – For RJ10, RJ11, RJ45 (4P, 6P, 8P) modular connectors **$9.99**

AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
- Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to to 126dB)
- A and C weighting
- Battery level indicator
- Battery included
- RCA output jack
- Dim: 6.3"h x 2.4"w x 1.7"d; 0.4 lbs

$29.99

TLM-2 Test Leads – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A..... **$2.99**

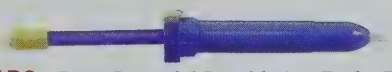
TLM-10 Test Probe set – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks..... **$4.99**

K/TF 75-piece cable-tie pack – Contains 25 each of 3.9 in, 4.7 in. and 7.9 in. long ties..... **$2.99**

VT-LAMP2U Magnifier Lamp – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount **$49.99**

DVM-850BL Digital Multimeter with Automatic Polarity Function and 3-1/2 Digit LCD Display (left) – Manual range selection, Data-hold function and back light. Measures AC and DC voltage up to 600V. Current up to 10A with overload protection, and Resistance up to 2MΩ. Diode, transistor (hFE) and continuity test with buzzer. Test leads, 6LR61 9V battery and protection holster included. Dim: 2.7"w x 5.4"h x 1.2"d **$19.99**

DVM-810 Mini 3-1/2 Digit Digital Multimeter (right) – Compact, a perfect fit for any toolbox or even shirt pocket. Measure AC and DC voltages up 500V and DC current up to 10A maximum. Measure resistance up to 2MΩ. Diode and transistor (hFE) test. Test leads and GP23GA 12V battery included. Dim: 3.75"h x 1.8"w x 1"d..... **$9.99**



VT-D2 – Extra Powerful Desoldering Tool – The easy way to remove solder from printed circuit boards, terminals and wires. Simply depress and lock down the spring loaded plunger. Place the tool tip over the heated molten solder and release the plunger. A strong vacuum at the tip removes the solder and captures it inside the cylinder. Teflon® nozzle. Dim: 13.2 in. long.....**$3.99**

KESTER **Rosin Core Solder**

Perfect for all ham radio and other electrical applications. The 60% tin, 40% lead composition, .040" diameter and 374°F melting temperature allows quick and secure, non-corrosive connections. Approximately 8 ft. (1/2 oz) in handy dispensing tube.. **KES 82-6000-6535 $3.99**

Weller SOLDERING TOOLS

SP-23LK 25W Soldering Iron Kit – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V.. **$16.99**

W-60P 60W Pencil-Type Soldering Iron – For most circuit work. 0.0625 in., 700°F screwdriver tip. Dim: 71/2 in. long, 2.5 oz., 6 ft. cord, 120V **$70.99**

WP-25 25W Pencil-Type Soldering Iron – For work on delicate electronics. 750°F tip temperature. Dim: 7.9 in. long, 1.75 oz., 4 ft. cord, 120V.... **$37.99**

ST-4 3/16 in. Screwdriver Tip **$3.99**
ST-5 3/32 in. Screwdriver Tip **$3.99**

WSTA3 Pyropen® Butane Soldering Iron with Case – Light-weight and completely portable. Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing..... **$119.99**

7200PK Multi-purpose Soldering Gun – Compact and lightweight, but 75W for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC..... **$27.99**
7235 (2) Extra standard tips **$3.99**

SOLDERING STATIONS

WESD51 50W Adjustable Soldering Station (left) For continuous production soldering as well as occasional use. Quick heat-up, and tip temperature recovery. Microprocessor temperature control and LED display that shows the adjustable heat setting and tip temperature from 350 to 850°F. Automatic shut down after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9"w x 4.5"h x 3.6"d; 4 lbs **$159.99**

WTCPT 60W Temperature Controlled Soldering Station (right) -- For production, rework, and repair of through-hole and SMT boards. ESD safe, tip maintains a constant 700°F without any adjustments. Includes: Control unit, pencil-type soldering iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5"w x 5.9"h x 3.6"d; 4 lbs..**$139.99**

Weller® SOLDERING TOOL

CHT-100 Weller®Coldheat™ Pro Soldering Tool Heats to melts solder instantly and then cools to the touch in just seconds. Produces over 700 joints per set of (5) AA alkaline batteries (not included). High/low power settings with capabilities to tin wire as large as 12 gauge or join wire from 18 to 25 gauge. Built-in bright white LED light to illuminate your work area, and red "in use" light. Rugged polycarbonate body and HD components. Includes, 61° angle chisel tip, protective cap and storage case. Dim: 9.25"l x 2"h x 1"d..... **$32.99**

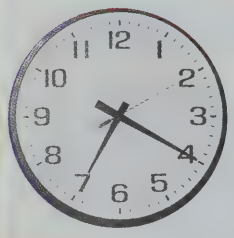
WAHL® ELECTRONICS ISO-TIP

7740 Cordless Soldering Iron Kit – Provides tip performance up to 50W and over 700°F. Contains premium NiCad rechargeable battery with high-rate charging capability. Partially discharged, it will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips..... **$52.99**

7971 SolderPro 50 BUTANE Soldering Iron – Ready to use within 10 seconds. Adjustable, 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0mm conical tip. Dim: 4-3/4 in. long.. **$25.99**

7974 SolderPro 70 BUTANE Soldering Iron – Adjustable, 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long. **$39.99**

Benjamin Michael Industries INC.



973A – Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. diameter dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" diameter x 1.75"d..... **$49.99**

972AD – Same but 12/24 hour dial **$27.99**

MFJ

105C 24 Hour Quartz Wall Clock – Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **$24.99**

112B DXer's World Map Clock – Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month, date and year. Select 12 or 24 hour time, daylight saving time. Dim: 4.25"w x 3.3"h x 2.25"d **$29.99**

125 DXer's Dream Quartz Wall Clock The 12 in. diameter face shows 24-hour time. Three independently settable table dials show 12 hour time, day and date. Uses a single "AA" battery **$34.99**

Small 24-Hour Clocks – A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B *(left)* **Single** – 2.25"w x 1"h x 2"d.... **$12.99**

108B *(right)* **Dual** – 4.25"w x 1"h x 2"d.... **$21.99**

113 118

113 12/24 Hour Desk Clock – Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9"w x 4"h x 2.5"d **$19.99**

118 Jumbo LCD™ 24/12-hour Clock – 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calender and flip stand. Uses one "AAA" battery. Dim: 5.75"h x 3.375"w x 0.5"d **$29.99**

123B Solar Powered Atomic LCD Clock No need for batteries or to set time! Receives WWVB signal. Display is a whopping 3.5"h x 6.25"w with huge 2" time digits. Choose 24 or 12 hour time. Has indoor temperature, running seconds, month/date and day-of-week displays. Attractive silver metallic looks fantastic on the wall or desk mounted in the shack or office! Dim: 9.5"w x 6.25"h x 1"d. **$79.99**

HOUSE of DEALS
LED Flashlights

FL-3232T

FL-8211B

HS-2005A

FL-3232T 32-LED Flashlight..... $24.99
- Sturdy, metal body
- Dim: 12 x 2-1/4 in.
- Powered by (3) "D" batteries (not included)

FL-8211B 11-LED head/bicycle Lamp..... $9.99
- 11 White & 2 Red blinking LED's
- Wide beam
- Adjustable head strap & bicycle attachment
- Dim: 2-3/4"w x 2"h x 4"d
- Powered by (3) "AAA" batteries (included)

HS-2005A 9-LED Pocket Flashlight.... $6.99
- Sturdy, 3-5/8 x 1 in. camo metal body
- Powered by (3) "AAA" batteries (not included)

Gift Certificates
available from all AES locations...
even online at www.aesham.com!

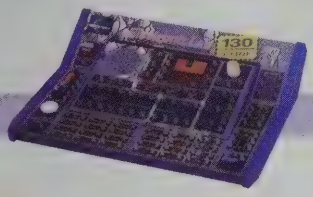
PDK Technologies

LITE FLARE® Emergency Signaling Device Eliminates the fire and environmental hazards of using incendiary flares. No fumes, burns or risk of igniting spilled fuel or roadside foliage. Approaching drivers can see LiteFlare's flashing super-bright red LED lights from more than a mile away. Operates over 400 hours on just two included/replaceable AA batteries. Durable, the LiteFlare® stands up to repeated drive overs and the molded plastic case resists snow, water, and fuel spills. This palm-sized product comes as a Multi-pack of three units in a plastic case that fits handily into motorcycle storage compartments, safety boxes, or trunks. Dim: 4.25"l x 3.8"w x 1"d; 6 oz ..... **(3 pack) $29.99**

velleman inc. ELECTRONIC LAB KITS

Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for EZ construction • No experience required!

EL-301 30 in 1 **Electronic Lab Kit** – This great starter kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more **$39.99**



EL-1301 130 in 1 **Electronic Lab Kit** – Build a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls **$89.99**

EL-3001 300 in 1 **Electronic Lab Kit** – Choose from over 300 exciting electronic projects including: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more **$129.99**

VECTRONICS RADIO KITS

Their are three difficulty levels so you can have fun no matter what your skill level is!

Simple (S): Calls for a few basic tools - a soldering iron, cutters, pliers, wire-strippers, and a small screwdriver.

Intermediate (I): Requires more involved construction - you may use some test gear for final adjustment or tuning.

Moderate (M): Requires some test gear - usually a multimeter for some final adjustment or tuning.

1140K 40M Receiver Kit (M)..... **$29.99**
121K Crystal Radio Kit w/Earphone (S).. **19.99**
1240K 40M QRP CW Transmitter Kit (I) **29.99**
1290K AM Radio Transmitter Kit (S)..... **29.99**
131K Aircraft Receiver Kit (I)..... **29.99**
201K CW Keyer Kit (S) **24.99**
422K FM Broadcast SCA Decoder Kit (S) **27.99**
830K SSB Audio Filter Kit (S)..... **19.99**
841K Tunable SSB/CW Audio Filter Kit (I) **34.99**

BOUNTY HUNTER METAL DETECTORS

LAND STAR

More features than other costly units. Includes a Bounty D-Tech™ search coil, advanced microprocessor electronics, 3-tone discrimination and Ground Trac® retune. Multi-function LCD and touchpad make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or "Auto Notch" detect coins 12 in. deep **$299.99**

SHARP SHOOT II

Treasures missed won't escape the Sharp Shooter II™. Digital LCD, touchpad control, and interchangeable. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker **$269.99**

TRACKER IV

The optimum combination of power, ease-of-use, affordability, and big finds every time. The Tracker IV™ is built with a fully-submersible 8 in. Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features three different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination . **$129.99**

LAND RANGER

Offers many high-end features for the serious detectorist. Designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8 in. waterproof, interchangeable search coil and SmartTrac® ground control **$399.99**

QUICK DRAW II

The Bounty Hunter Quick Draw II™ metal detector packs many powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, three levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10 in. deep and larger objects up to 5 ft **$229.99**

TIME RANGER

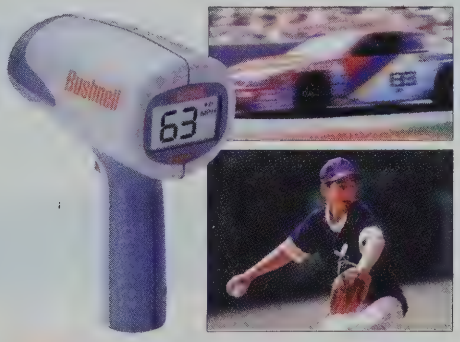
Recover more relics and valuables from the past then ever before. The Time Ranger's powerful circuitry and smooth operation combine to deliver absolute performance. The innovative Sniff-Mode can be used in specialized applications when rejection or acceptance of a particular object is desired **$499.99**

CARRY BAG Padded Carrying Case – Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket **$29.99**

10" COIL 10-inch Magnum Coil – Adds extra depth for relic and cache hunting **$49.99**

BUSHNELL SPEED GUN

Bushnell makes it easy to accurately measure speed with the Velocity™ speed gun. Very easy to use with its point-and-shoot operation. The Velocity™ speed gun boasts ±1.0mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Velocity™ gun has a 6–110mph range for baseball, softball and tennis, 6–200mph range for auto racing.



10-1911 Velocity™ Speed Gun – Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ± 1 mph accuracy; Operates on two "C" batteries. Dim: 4.3" x 8.4" x 6"; 13 oz..... **$99.99**

Talking Electronic Chess Computer

908 Go up against this chess pro for a challenging game! Magnetic board and chess pieces – pieces store conveniently in compartment under board. Expert strength – estimated 2000 rating; Speaks to player in English, French and German. Includes special teaching and coaching features. 136 selectable levels from beginner to expert. Easy-to-read LCD shows how much time each player has on dual clocks, every move for both player and computer, move counter, automatic scoring, and info mode (what computer is "thinking"). Auto shut-off with memory save; selectable opening lines for play and learning, and lots more; operates on 3 AA batteries. Dim: 12"w x 1"h x 9.98"d; 1.75 lbs.... C/O **$59.99**

Order Now Toll Free from any AES Location

AMATEUR ELECTRONIC SUPPLY® 5710 W. Good Hope Road • Milwaukee, WI 53223
Local: (414) 358-0333 • *Toll Free:* (800) 558-0411 • *24-hour FAX:* (414) 358-3337 • *Online:* www.aesham.com • *E-Mail:* info@aesham.com

Salesperson's Name _____
Account No. _____ Date _____
Name _____ Call _____
Address _____
City/State _____ Zip _____
E-Mail Address: _____ Fax: ( )
Phone No. (Home) ( ) _____ Hours: _____
Phone No. (Work) ( ) _____ Hours: _____

SHIP TO *(If other than at left):*

IF YOU HAVE MOVED since your last order, please show your old address:

QTY	MANUFACTURER	PART OR MODEL # • DESCRIPTION	PRICE EACH	TOTAL

PLEASE CALL ANY LOCATION TO CONFIRM PRICING • DO NOT MAIL CURRENCY — **TOTAL AMOUNT OF ORDER** $

LINE 1 — Shipping Charges We ship via **UPS Ground** at *flat-rate* shown below and on next page, except to APO/FPO made via Priority Mail.

UPS Ground Flat-Rate Shipping (48 States):

Orders up to $100.00 ($4.99); $100.01 to $500.00 ($9.99); $500.01 to $1499.99 ($14.99); $1500.00 & UP (FREE) +

For Faster Service select one of the following: (These methods are not flat-rated so allow for increased shipping charges - no flat-rate credit.)

❒ UPS Next Day Air ❒ UPS 2nd Day Air ❒ UPS 3-Day Select ❒ Fedex Next Day Air ❒ Fedex 2nd Day Air ❒ Express Mail ❒ Priority Mail

Shipping Charges are taxable in WI, FL, NV & OH

LINE 2 — State Sales Tax: ❒ WI- 5.6%, ❒ FL- 6.5%, ❒ NV- 7.75%, ❒ OH- 6.25%

Additional county & local sales tax may apply. +

LINE 3 — Credits: AES Refund Checks, Gift Certificates or Manufacturer's Coupons (if any) DO NOT DEDUCT MAIL-IN REBATES -

CREDIT CARD INFORMATION

We accept I.M.P.A.C.® Government Credit Cards

Account Number

Cardholder's Name — CARD EXPIRES

Cardholder's Signature — Date

LINE 4 — Balance $

LINE 5 — Due AES from previous order (if any) +

TOTAL AMOUNT DUE $

Choose payment method from below: (Fill in information at right, if applicable)
❒ Bank transfer ❒ Certified check ❒ Personal check ❒ Money order
❒ Credit card (VISA, MasterCard, Discover, American Express, IMPAC)
❒ COD $9.00 fee per package. *Money Order or Certified Check Only.*
MINIMUM $50.00 COD ORDER – NO AIR OR PARCEL POST COD's

AMOUNT ENCLOSED -

BALANCE DUE (IF ANY) $

NOTES:

Cash Refunds: Amounts under $5.00 will not be refunded unless requested in writing to Milwaukee headquarters.

Call 1-800-558-0411 for Bank Transfer Information

COD ORDERS

Minimum COD order is $50.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a $9.00 COD fee per package applies. Payment by money order or certified check only, not cash.

DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY**. The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. It is the customer's responsibility to return the defective merchandise to AES or the factory. The manufacturer's warranty does not include reimbursement for freight charges. Canadians please see *"Canadians Note:"* under TRADE-INS.

INTERNET ORDERS

The customer may order products directly on our web site via our internet order form. If the customer does not have access to the web please call in or mail your order to any AES location. See page 134 for order blank.

PAYMENT

Accepted forms of payment are electronic bank transfer (add $30.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc. prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. **AES** is not responsible for typographical errors or omissions.

REFUNDS

Amounts under $5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee.** The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. We reserve the right to charge back actual outbound freight on returns from flat-rate or prepaid shipments. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see *"Canadians Note:"* under TRADE-INS.

REFUSED ORDERS

If a package is refused by the customer the actual outbound freight and actual inbound freight charges by the carrier will be deducted from the return. Packages returned by the customer unopened will only be subject to actual outbound freight. AES also reserves the right to charge a minimum 15% restocking fee to the return.

PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send your package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders will not affect the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods or USPS.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges are taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches due to various reasons. In this case, AES will ship the order from a location that has the needed item.

TRADE-INS - CALL BEFORE SENDING

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.® credit cards. For more information please contact any AES location.

SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. Often we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via bank wire transfer. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details. All international regulations apply.

EU COUNTRIES

Due to current European Union (EU) regulations, AES CANNOT export most products to EU member countries and members of the European Economic Area (EEA).

FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to $100.00	$4.99
$100.01 to $500.00	$9.99
$500.01 to $1499.99	$14.99
$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii

Flat Rate Advantage – No Penalty for Number of Cartons or Weight!

UPS cannot deliver to PO Boxes

Our Experienced Sales Staff at your Service...

MILWAUKEE, WI 414-358-0333 • 1-800-558-0411

GARY L. KA9YTB

PAUL W9KHO

JIM WJ9P

SANDY K9WOOF
AES SALES DOG

TOM W9TJP
National Sales Manager

JEFF N9EDQ
Assistant Manager

RAY W9KHH

GREG K9XBX

CLEVELAND, OH 440-585-7388 • 1-800-321-3594

BEN AA8AH
Store Manager

MIKE KC8NMW
Assistant Manager

PHILLIP KB8GA

MATT KB1LCS

ED K8CVZ

LAS VEGAS, NV 702-647-3114 • 1-800-634-6227

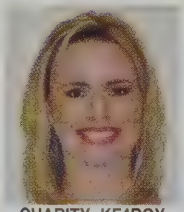
LUKE KK7XX
Store Manager

JULIO KP4UZ
Assistant Manager
Hablo español
Ich spreche Deutsch

ART K7ZE

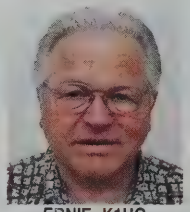
BILL W6EIO

ORLANDO, FL 407-894-3238 • 1-800-327-1917


CHARITY KF4RQY
Store Manager

GRANT K4IQW
Assistant Manager

EDDIE KD4RAZ
Hablo español


ERNIE K1HO

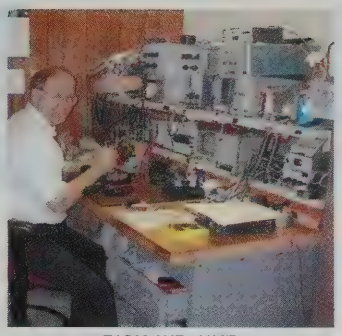
GEORGE K2WO

JIM W9QC

CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.

MILES, K9HMQ (SERVICE MANAGER)
(Milwaukee Store)



RICK, WB9HKE
(Milwaukee Store)

Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087.

Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service" and always adequately insure your items.

Labor Rates

- $60 per hour for Out-Of-Warranty Service
- $80 minimum on HF/VHF Base Stations
- $60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

SHIPPING INFORMATION

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to $100.00	**$4.99**
$100.01 to $500.00	**$9.99**
$500.01 to $1499.99	**$14.99**
$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii

(Flat Rate Advantage – No Penalty for Number of Cartons or Weight!)

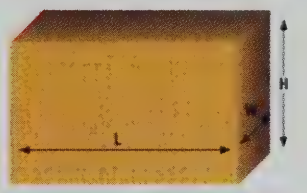
EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

Please see Policies Page for complete information.

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service.



Domestic Air

$$\frac{L \times W \times H}{194} = \text{Dimensional Weight}$$

International Air

$$\frac{L \times W \times H}{166} = \text{Dimensional Weight}$$

Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.

We Invite You to Visit the Nearest AES® Location

All Store Hours: Monday–Friday • 9am to 5:30pm, Saturday • 9am to 3pm

MILWAUKEE, WISCONSIN

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28940 Euclid Ave. • 440-585-7388 • 1-800-321-3594

ORLANDO, FLORIDA

621 Commonwealth Ave. • 407-894-3238 • 1-800-327-1917

LAS VEGAS, NEVADA

4640 South Polaris Ave. • 702-647-3114 • 1-800-634-6227

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Browse Our Store On-Line at www.aesham.com

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936-649-1497 • fax: 936-649-1303
info@hamdistributors.com

ALPHA DELTA
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Manchester, KY 40962
606-598-2029 • fax: 606-598-4413
sales-info@alphadeltacom.com

AMERICAN RADIO RELAY LEAGUE
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Newington, CT 06111
860-594-0200 • fax: 860-594-0259
hq@arrl.org

ANTENEX
See Laird Technologies

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20655 S. Western Ave. Suite 112
Torrance, CA 90501
310-787-8615 • fax: 310-787-8619
info@aorusa.com

ARROW ANTENNAS
911 E. Fox Farm Road #2
Cheyenne, WY 82007
307-638-2369
arrowantennas.com

ASTRON CORPORATION
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Irvine, CA 92618
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sales@astroncorp.com

AVMAP
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